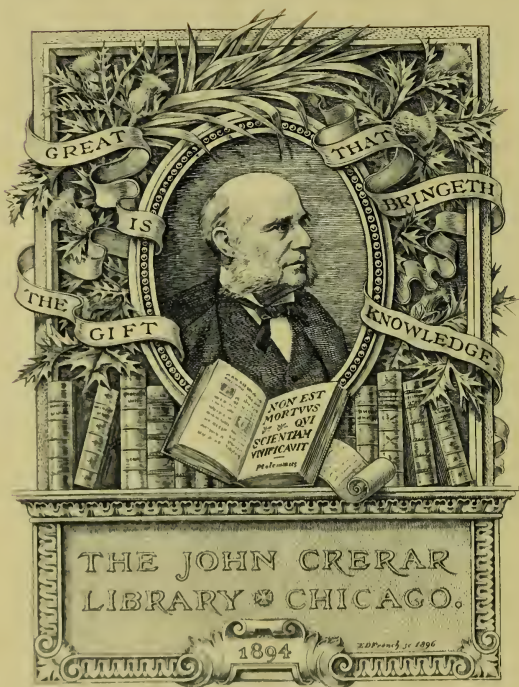








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Occidental College Bulletin

NUMBER 11

MAY, 1910

CATALOGUE NUMBER



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Los Angeles, California

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THE
AMERICAN
MUSEUM OF
NATURAL HISTORY

~~Withdrawn~~
CATALOGUE

OF

OCCIDENTAL
COLLEGE

1909-1910



ANNOUNCEMENT FOR 1910-1911

LOS ANGELES, CALIFORNIA

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Calendar

1910

June 6-10 Final Examinations.

June 12, 4 p.m. Baccalaureate Sermon.

June 12, 5 p.m. Vesper Service of the College
Christian Associations.

June 14 Senior Class Day.

June 15, 10:30 a.m. Annual Commencement.

Sept. 12-13 Examinations for Admission
and for Removal of Condi-
tions. Registration of new
students.

Sept. 14, 11 a.m. First Semester begins.

Nov. 24 Thanksgiving Day.

Dec. 16, 4 p.m. Christmas Vacation begins

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1911

Jan. 3, 8 a.m.	Christmas Vacation ends. ✓
Jan. 23-27	Mid-Year Examinations.
Jan. 27, 4 p.m.	First Semester ends.
Jan. 31, 11 a.m.	Second Semester begins.
Feb. 9	Day of Prayer for Colleges.
Feb. 22	Washington's Birthday.
March 24, 4 p.m.	Spring Vacation begins.
April 4, 8 a.m.	Spring Vacation ends.
June 5-9	Final Examinations.
June 11, 4 p.m.	Baccalaureate Sermon.
June 11, 5 p.m.	Vesper Service of the College Christian Associations.
June 13	Senior Class Day.
June 14, 10:30 a.m.	Annual Commencement.

OCCIDENTAL COLLEGE

OCCIDENTAL COLLEGE was founded April 20, 1887, by representative citizens of Los Angeles and vicinity. Though bound by no peculiar creed, it stands firmly on the great truths of evangelical Christianity. Four things are guaranteed to its patrons:

First, that the authority of God's word shall be recognized as paramount in all its teachings.

Second, that no sectarian influence shall be admitted within its walls.

Third, that standard, up-to-date courses shall be maintained in every department in which instruction is offered.

Fourth, that nothing shall be undertaken which cannot be done well.

The object for which the College was founded, and to which its trustees and faculty stand committed, is the glory of God as seen in the development of young men and young women for lives of the highest usefulness. Such an aim calls for a faculty composed of Christian men and women, strong in scholarship and personality; a broad, well proportioned curriculum; and material equipment to correspond. Each of these demands, the trustees believe, is being successfully met at Occidental. Additions to the present investment in the shape of money, character, and talent, will steadily continue. Progress, on safe lines, may be accepted as a part of the institution's settled policy.

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Faculty and Instructors

Officers of Administration

Board of Trustees

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D. B. Gamble,
John Willis Baer, LL.D.
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W. L. Green.
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Term expiring January 31, 1913:

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Arthur H. Fleming,
Fred H. Schauer, Esq.

Term expiring January 31, 1914:

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Rutan Professor of Latin.

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Professor of Philosophy.

CALVIN O. ESTERLY, Ph.D.,
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*In order of appointment, excepting the President and the Dean.

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Dean of the Faculty.

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Business Manager.

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Assistant to the President.

MARY RUTH PERKINS, A.B.,
Secretary to the President.

OCCIDENTAL ACADEMY

For separate catalogue of the Academy and full
information, address

CHARLES B. MOORE, M.A., Principal,
Occidental Academy, Los Angeles, Cal.

STANDING COMMITTEES OF THE FACULTY

President's Council—Dean Burt, Dean Cooper, Professor Stevenson, Professor Allen, Professor Handley, Professor Ward.

Admission and Classification—Professor Allen, Professor Ward, Dean Cooper, Professor Fiske, Professor Cook, Professor Adams.

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Catalogue and Curriculum—Professor Ward, Professor Stevenson, Professor Allen, Professor Esterly, Professor Bell, Professor Higgins.

Christian Work—Professor Cunningham, Dean Burt, Professor Miller, Mr. Moll, Mr. Westcott.

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Laboratories—Professor Adams, Professor Esterly, Professor Cook, Professor Fiske, Professor Chandler.

Library—Professor Handley, Miss Foote, Dean Cooper, Professor Higgins, Dean Burt.

Public Exercises—Dean Burt, Dean Cooper, Professor Esterly, Professor Ward, Professor Cunningham.

Rules and Discipline—Dean Burt, Dean Cooper, Professor Higgins, Professor Cook, Professor Ward.

Schedule—Professor Allen, Professor Ward.

Social Life—Dean Cooper, Professor Fiske, Professor Handley, Dean Burt, Director Braden.

Events of the Year

1909

- April 30** Address, Rev. J. B. Lee, D.D., New York, College Secretary Presbyterian Evangelistic Committee. "Three Temptations of the Student."
- May 6** Illustrated Lecture, Prof. S. Herbert Anderson, M.A., Occidental College. "Flying Machines."
- May 7** Annual Demonstration of the Department of Physical Training.
- May 13** Illustrated Lecture, Prof. Frederick H. Beals, M.A., Occidental College. "X-Rays and Vacuum Tubes."
- May 14** Address, Mrs. E. Y. Van Meter, Los Angeles. "The Mountaineers of the South."
- May 14** Illustrated Lecture before the Hellenic Society, Professor B. R. Baumgardt, Los Angeles. "Greece."
- May 21** Address, Rev. Dana Bartlett, D.D., Bethlehem Institute, Los Angeles. "Six Great Words."
- May 28** Address, Rev. Frank M. Dowling, D.D., Pasadena. "Christianity's Conquest."
- June 13** Baccalaureate Sermon, Rev. Arthur S. Phelps, D.D., Los Angeles.

- June 14 Senior Play.
- June 15 Class Day.
- June 16 Annual Commencement.
- Sept. 15 Opening of the New College Year. Addresses by Rev. Hugh K. Walker, D.D., President of the Board of Trustees, and President Baer.
- Sept. 24 Address, Hon. Robert Watchorn, Los Angeles. "Reminiscences of Twenty-five Years as Commissioner of Immigration at Ellis Island."
- Sept. 29 Address, Principal Russell C. Calhoun, Hungerford Industrial Institute. "Education of the Southern Negro."
- Oct. 1 Address, President J. A. B. Scherer, Throop Polytechnic Institute, Pasadena. "Our Yellow Brother."
- Oct. 6 Lecture before the Faculty Round Table, Prof. Calvin O. Esterly, Ph.D., Occidental College. "Heredity."
- Oct. 8 Address, Rev. Dana Bartlett, D.D., Bethlehem Institute, Los Angeles. "The Social Survey."
- Oct. 12 Visit of President William Howard Taft.
- Oct. 15 Address, Rev. Arthur S. Phelps, D.D., Los Angeles. "Southern California's Impressions of President Taft."

- Oct. 18 Address, Hon John G. Woolley, Honolulu. "Some Personal Reminiscences."
- Oct. 22 Address, Mr. Claude A. Braden, Pasadena. "Around the World on Thirty Dollars."
- Oct. 29 Address, Congressman James McLachlan, Pasadena. "The Making of a Federal Bill."
- Oct. 30 Sophomore Night.
- Nov. 4 Lecture before the Faculty Round Table, Prof. John Mead Adams, Ph.D., Occidental College. "Recent Developments in the Study of X-Rays."
- Dec. 2 Lecture before the Faculty Round Table, Prof. Anna Pearl Cooper, M.A., Occidental College. "Samuel Johnson's Criticism of Shakespeare."
- Dec. 3 Address, Rev. Robert J. Burdette, D.D., Pasadena. "Fools."
- Dec. 10 Address, Miss Theresa Wilbur, National Secretary Y. W. C. A. "Reality in College Life."
- Dec. 10 Illustrated Lecture, Hon Robert Watchorn, ex-Commissioner of Immigration, Los Angeles. "Immigration."
- Dec. 11 Occidental-Pomona Debate, at Pomona College.

1910

- Jan. 6 Lecture before the Faculty Round Table, Professor L. R. Higgins, Ph.D., Occidental College. "Greek Religion."
- Jan. 7 Announcement of New Campus Site.
- Jan. 7 Address, Rev. Frank W. Bible, Hang Chow, China. "The Awakening of China."
- Jan. 11-13 Three Lectures, Rev. Joseph W. Cochran, D.D., Philadelphia, Secretary Presbyterian Board of Education. "Studies in Moral and Spiritual Leadership."
- Jan. 13 Lecture before the Classical Society, Prof. J. W. Kyle, Redlands University. "A Trip through Greece."
- Jan. 18 Illustrated Lecture, Prof. W. D. Ward, Ph.D., Occidental College. "A Holiday in Ancient Athens."
- Feb. 7 Address, Rev. Francis E. Clark, D.D., President International Society of Christian Endeavor. "The Progress of Endeavor in Foreign Lands."
- Feb. 8 Address, President David Starr Jordan, Stanford University. "The Call for Young Men."

- Feb. 9 Address, Secretary William Shaw, National Society Christian Endeavor. "Dwarf Trees of Japan."
- Feb. 9 Lecture before the Faculty Round Table, Prof. S. Herbert Anderson, Occidental College. "Corpuscular Theory of Matter."
- Feb. 10 Address, Rev. Malcolm J. McLeod, Pasadena. "Not Far from the Kingdom."
- Feb. 11 Address, Rev. Daniel F. Fox, D.D., Pasadena. "Abraham Lincoln."
- Feb. 15 Illustrated Lecture, Prof. Elbert E. Chandler, Ph.D., Occidental College. "The Imperial Valley."
- Feb. 18 Address, Rev. George L. Spining, D.D., New York. "Our Bronze Brothers."
- Feb. 25 Junior Night.
- Feb. 28 Address, Mrs. Maud Ballington Booth, Volunteers of America. "Prison Ministry."
- March 4 Lecture before the Classical Society, Rev. Arthur S. Phelps, D.D., Los Angeles. "Rome."
- March 11 Lecture, Dean Thomas G. Burt, Ph.D., Occidental College. "The Rhine in History and Legend."

- March 17 Lecture before the Faculty Round Table,
 Prof. William Bell, M.A., Occidental
 College. "The Place of Modern Lan-
 guages in a Modern Education."
- April 8 Address, Rev. W. H. W. Boyle, D.D.,
 Lake Forest, Ill. "The Significance
 of an Education."
- April 12 Lecture, Prof. Mary C. Cunningham,
 M.A., Occidental College. "Myth-
 ology."
- April 14 Lecture before the Faculty Round Table,
 Prof. Ernest E. Allen, M.A., Occi-
 dental College. "Halley's Comet."
- April 15 Address, Rev. Hugh Black, D.D., Union
 Theological Seminary, New York.
 "Vision."
- April 22 Address, Lyman B. Sperry, M.D., Los
 Angeles. "Observations from the
 Trail."
- April 29 Lecture (repeated at the Friday Assem-
 bly), Prof. Ernest E. Allen, M.A.,
 Occidental College. "Halley's Comet."
- May 6 Address, Mayor George Alexander, Los
 Angeles. "Individual Responsibility."
- May 6 Illustrated Lecture, Prof. W. S. Steven-
 son, LL. D., Occidental College.
 "Economics and Faith."

Material Equipment

Grounds

A new campus of ninety acres has just been acquired by gift and purchase, to which the College will be removed in the near future. The site chosen is a part of Occidental Park, in Eagle Rock Valley. Lying among the hills, with the mountains in the background, it is nevertheless easily accessible by trolley from any part of Los Angeles. Convenience of location, pure atmosphere and magnificent natural scenery combine in rendering it an ideal place for a college.

The present campus consists of twenty-five acres located in Highland Park, in the northeastern portion of Los Angeles, midway between the business center of that city and Pasadena. It is easy of access, being on one of the boulevards which connect the two cities and reached by two lines of electric cars. At the same time it is quite suburban in its surroundings, and by its altitude clear removed from the smoke and dust of the city. Health and beauty of situation are enhanced by the presence of a cultured Christian community in which the different churches vie with each other in providing every religious and social advantage.

Buildings

The Hall of Letters is a brick structure, erected at a cost of \$70,000. It has three stories and a basement, with a frontage of 180 feet and a depth of 100 feet. It is occupied by the rooms of the execu-

tive officials, and by lecture rooms for all departments except Biology, Geology and Chemistry. It contains also the halls of the Christian Associations and of the Literary Societies, and an auditorium furnished with opera chairs and having a seating capacity of five hundred. Actual use has proved it to be admirably adapted to the requirements of an up-to-date, progressive school.

The Stimson Library, erected by Mr. C. M. Stimson of Los Angeles, at a cost of \$20,000, is one of the most beautiful library buildings on the Coast. The lower floor is at present used by the departments of Biology and Geology. The main floor contains reading and reference rooms, librarian's office, stock room, and the usual facilities for efficient work.

In addition to the three main buildings, there are two smaller buildings which have been set apart for the use of the chemical laboratories.

Library

The Stimson Library contains nearly eight thousand volumes, including many valuable reference works. Additions are continually being made. Several of the department libraries are especially creditable, being well stocked with the latest and best literature in their particular lines.

Laboratories and Apparatus

The Biological Laboratories are well equipped. The student in the beginning courses is provided with a compound microscope suitable for all ordinary work; in the higher courses where a micro-

scope is required, each student has an instrument that is completely equipped with condenser, oil-immersion objective and camera. The departments have a very full equipment of stains, reagents and microscopical accessories, such as microtomes, paraffine baths and the like.

The Zoological collections are complete enough to give a thorough survey of the animal kingdom. There is a good working collection of bird skins, and a number of excellent preparations of invertebrates, as well as the more important vertebrate preparations. The department has a manikin which makes possible a comparison of the lower mammals with man. There are also fine sets of wax models illustrating the development of the frog and man.

The Botanical equipment includes the apparatus designed by Professor Ganong for physiological and ecological work. The department owns an herbarium containing 1000 Pacific Coast plants, which have been catalogued for ready reference. The botanical library, for which the College is principally indebted to Rev. J. C. Nevin, Ph.D., LL.D., is especially valuable.

The Department of Geology and Mineralogy is equipped for efficient work. Mr. Gail Borden has loaned to the department a rare and valuable collection of labeled minerals, valued at about \$4,000, while Dr. H. B. Gage has donated a collection consisting of several hundred specimens of minerals and fossils, many of which are of great value and scientific interest. A physical-series set, consisting of over two hundred specimens recently purchased

of the Foote Mineral Co., Philadelphia, makes a good working series for descriptive and determinative mineralogy. Considerable additions have been made in the way of microscopical rock sections, also in apparatus for studying the physical properties of minerals, for blow-pipe analysis and for effective work in the field.

The tertiary hills surrounding Highland Park present some interesting and excellent examples for field work in dynamic geology. A thousand lantern slides, illustrating geological structures and changes, have been made in the new photographic laboratory, and this number is continually being increased. A valuable series of ideal geological landscape and paleontological charts have recently been added to the department. These, accompanied by other collections, consisting of rocks and fossils, maps and models, greatly assist in the acquirement of a proper conception of the laws of dynamical and historical geology.

The Chemical laboratories occupy, for the present, two small buildings on the edge of the campus. One of these buildings contains a lecture room, the laboratory for general chemistry and qualitative analysis, and a well equipped supply room. In the other building is the laboratory for quantitative analysis and organic chemistry, and the weighing room, which is supplied with the analytical balances required for the work. Both laboratories are provided with modern desks, each with its own set of apparatus, so that the student may work independently. Extra apparatus may be obtained from the supply room as needed. New apparatus and equip-

ment are being added each year as the needs of the courses demand it.

The equipment in Physics includes numerous pieces covering a wide range of phenomena and selected with great care. The following list is not exhaustive, nor even approximately so, but is intended merely to show the grade of apparatus selected: Double cylinder, motor-driven "Geryk" pump; coincidence pendulum, comparator, cathetometer, Young's modulus and torsion apparatus, Alluard hygrometer, Michaelson interferometer (Gaertner); studentia calorimeter (Scientific Shop); improved Joly balance (Stoelting); Pulfrich refractometer (Fritz Köhler); saccharimeter (Schmidt and Haench); universal tangent galvanometer and earth inductor (Queen); station and standard ammeters and voltmeters (Weston); universal vertical galvanometer (Keiser and Schmidt); Thompson double bridge, Kohlrausch universal bridge, and ballistic galvanometer (Hartman and Braun); decade boxes, Wheatstone bridges, galvanometers and condensers (Leeds and Northrup); secohmmeter, quadrant electrometer, mechanical equivalent of heat (Pye); inductance standard (Nalder); standard resistance (Wolff). The department is particularly fortunate to have a very large Waite and Bartlett static electric machine. This, with the following and various other pieces, is the gift of Dr. O. S. Barnum of this city: Churcher rectifier and several transformers, Faradic and Galvanic cabinet, Wehnelt interrupter, twelve-inch induction coil, several motors, high frequency and wireless telegraphy apparatus, a full supply of

Roentgen tubes capable of doing first-class X-ray work.

One of the most practical additions to the department is a shop well supplied with all sorts of wood-working tools, a buzz saw, a direct current dynamo, and screw-cutting engine lathe. A fully equipped photographic laboratory also adds to the efficiency of the department.

The department of Mathematics is equipped with a reference library of 200 volumes, by the best authors, and covering every branch of mathematics. A ten-inch Newtonian reflecting telescope is already on the ground, and the expectation is that it will be mounted in a suitable observatory. The department also has two sextants, transit, Y level, leveling rod, polar planimeter, slide rule, Thatcher's calculating machine, Crelle's calculating tables, a high-grade protractor, parallel rulers, celestial globe, planetarium, and a number of less important instruments.

Requirements for Admission

REQUIREMENTS FOR ADMISSION

Admission to the Freshman Class

Candidates for admission to the Freshman Class must be sixteen years of age and must be provided with testimonials of good moral character. Applicants not presenting certificates from accredited high schools or academies will be required to take examinations in all subjects for which they seek admission credit.

Graduates of accredited high schools or academies will be given credit for the subjects in which they are recommended. All credits are, however, subject to the test of the class room. Blanks for certificates will be furnished on application to the Registrar, and it is expected that all applicants for admission without examination will use them. To be admitted to full Freshman standing the candidate must present admission credits amounting to fifteen units of academy or high school work, the unit being understood to represent five recitations per week in one subject continued through one school year.

Admission Subjects

A detailed description of the subjects here enumerated may be found on pages 32 to 44. Other subjects are sometimes accepted and will be considered on their merits when presented.

1. English, Elementary	2 units
2. English, Advanced	1 unit
3. English, Advanced	1 unit
4. Algebra, Elementary	1 or 1½ units
5. Algebra, Advanced	½ unit
6. Plane Geometry	1 unit
7. Solid Geometry	½ unit
8. Plane Trigonometry	½ unit
9. Ancient History	1 unit
10. Mediaeval and Modern History	1 unit
11. English History	1 unit
12. History and Government of U. S.	1 unit
13. Latin, Elementary	2 units
14. Cicero and Latin Composition	1 unit
15. Vergil and Latin Composition	1 unit
16. Greek, Elementary	2 units
17. Homer and Greek Composition	1 unit
18. German, Elementary	2 units
19. German, Intermediate	1 unit
20. German, Advanced	1 unit
21. French, Elementary	2 units
22. French, Intermediate	1 unit
23. French, Advanced	1 unit
24. Spanish	2 units
25. Physics	1 unit
26. Chemistry	1 unit
27. Botany	1 unit
28. Zoology	1 unit
29. Physiology	1 unit
30. Physical Geography	1 unit
31. General Science	1 unit
32. Freehand Drawing	1 unit
33. Mechanical Drawing	1 unit

Unconditioned Entrance

For unconditioned entrance, one of the following groups of admission subjects must be presented, together with sufficient electives to bring the total value up to fifteen units:

A.—1, 4, 6; 11 or 12; 13, 14, 15, 16, 17; 25 or 26 or two other sciences.

B.—1, 4, 6; 11 or 12; 13 or 18 or 21; 25 or 26 or two other sciences.

C.—1, 4, 6, 7, 8; 11 or 12; 13 or 18 or 21; 25, 26.

Group A should be presented by those expecting to take a classical course, though subjects 16 and 17 may be omitted where other equivalent credits are offered in their place.

Group C must be presented by those seeking the degree of B.S.

Conditioned Entrance

Candidates who are deficient in not more than one and one-half units of the required fifteen may be admitted as conditioned Freshmen; but all entrance conditions must be removed before any student may be ranked as a Junior.

Advanced Standing

Students from other institutions of recognized collegiate rank will be admitted to such standing as seems fair in the judgment of the Faculty. The

application must be accompanied by a letter of honorable dismissal, a catalogue of the institution granting it, an official statement of subjects completed, with the number of terms and the number of hours per week devoted to each subject, and a similar statement of entrance credits.

Students at Large and Special Students

No student is permitted to register for less than twelve units of work in any semester, save by a special vote of the Faculty. Subject to this provision, recommended graduates of accredited preparatory schools presenting any fifteen units included in the list of admission subjects named on page 30, may be admitted as students at large, with the privilege of taking such courses as their preparation allows. Those whose preparation does not admit them to the status of students at large or of conditioned Freshmen are sometimes admitted as special students, but only in case of age and maturity. Students at large and special students are subject to the same regulations as the others. They may become candidates for a degree at any time by meeting the usual entrance requirements. On withdrawing from the institution they will be granted certificates showing the work completed.

Description of Admission Subjects

1. English, Elementary. (2 units.)

(a) A practical knowledge of grammar, and of the elements of rhetoric, and the ability to write correct English.

(b) Literature for careful reading:

1907-11. Group I. (two to be selected): Shakespeare's *As You Like It*, *Henry V.*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II. (one to be selected): Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, Part 1; *The Sir Roger de Coverley Papers in the Spectator*; Franklin's *Autobiography*.

Group III. (one to be selected): Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II. and III., with especial attention to Dryden, Collins, Gray, Cowper and Burns.

Group IV. (two to be selected): Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V. (two to be selected): Irving's *Sketch Book*; Lamb's *Essays of Elia*; DeQuincey's *Joan of Arc and the English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

The work in literature in admission subjects 1 and 2 is based upon the Uniform Entrance Requirements in English. Books substituted must be equivalent in literary merit and similar in type to those omitted.

Group VI. (two to be selected): Coleridge's *Ancient Mariner*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and the *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV., with especial attention to Wordsworth, Keats and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and *The Passing of Arthur*; Browning's *Poems* (selected).

2. **English, Advanced.** (1 unit.) Literature for detailed study:

1907-11. Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Pensero*; Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

3. **English, Advanced.** (1 unit.) Advanced composition, including training in the various forms of discourse: description, narrative, exposition and argumentation.

4. **Algebra, Elementary.** (1 or $1\frac{1}{2}$ units.) The fundamental laws, laws of exponents, formulas of multiplication, binomial theorem with positive integral exponent, factoring, common divisors and multiples, radicals, simultaneous equations of the first degree, quadratic equations, theory of quad-

ratio equations, the elementary presentation of roots, powers, series and logarithms.

5. Algebra, Advanced. ($\frac{1}{2}$ unit.) Simultaneous quadratic equations and equations essentially quadratic; fractional exponents, fractional and irrational equations; roots and powers of polynomials; series; binomial theorem; logarithms; and the elements of the theory of equations.

6. Plane Geometry. (1 unit.) The general properties of plane figures, the circle and the measure of angles, areas, regular polygons, and the measure of the circle; the usual demonstrated theorems and original propositions.

7. Solid Geometry. ($\frac{1}{2}$ unit.) Relations of lines and planes to space; the properties of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; original propositions.

8. Plane Trigonometry. ($\frac{1}{2}$ unit.) The development of the general formulae of elementary plane trigonometry; the theory and use of logarithms; the numerical solution of plane triangles and of trigonometrical problems in heights and distances.

9. Ancient History. (1 unit.) A year's work in the history of the Eastern Nations, Greece and Rome, to the establishment of Charlemagne's empire. In Grecian history special attention should be given to the period from the fifth to the second century B.C., and in Roman history to the period from the conquest of Italy to the establishment of Christianity. Outlines, maps, and papers on spe-

cial topics should be prepared, and should be presented at the time of the examination.

10. Mediaeval and Modern History. (1 unit.) A year's work in European history from Charlemagne's time to the present. Special attention should be given to mediaeval institutions, the struggle between the empire and the Papacy, the Reformation, and the French Revolution. About one-fifth of the work should be put upon the nineteenth century. Outlines, maps and papers upon special topics should be prepared, to be presented at the time of the examination.

11. English History. (1 unit.) A year's work in the history and government of England. Maps, outlines and special reports should be presented at the time of the examination.

12. History and Government of the United States. (1 unit.) A year's study beyond the grammar school, with considerable work in outlines, papers, notes and reports, to be presented at the time of the examination. The candidate for admission should have a good working knowledge of the Constitution of the United States, and should be familiar with the works of reference on American history found in good high school libraries.

13. Latin, Elementary. (2 units.) Two years of daily exercises are necessary to complete this requirement. The first object to be sought is correct pronunciation, following which, and still more important, is an accurate knowledge of forms. The

failure to attain this is responsible for most of the failure and drudgery of the Latin course. Four books of Caesar must be read in class, accompanied by persistent drill in constructions and frequent translation from English into Latin of sentences based on the text. Occasional practice in sight reading is assumed. One result of this course should be a vocabulary, thoroughly learned, of twelve to fifteen hundred words. The substitution of other authors for a portion of the Caesar is admissible.

14. Cicero and Latin Composition. (1 unit.) Six orations of Cicero are required, including the four against Cataline and the one in support of the Manilian Law. Work in constructions should be unremitting. The work in composition should be somewhat more advanced, involving greater attention to the orderly arrangement of the sentence and the joining of sentences into connected paragraphs. Sight reading, in the same author, should be given an increasingly important place, not merely for added facility in translation but for the purpose of discovering and correcting faulty habits of preparation. Time required, one year.

15. Vergil and Latin Composition. (1 unit.) This subject calls for the reading and interpretation of the first six books of Vergil's Aeneid, together with daily or weekly exercises in prose composition based on the authors previously read. After three years devoted to the acquisition of the language, the study of Vergil should be approached with a literary rather than a purely linguistic purpose. Ability to

read the hexameter metrically at sight is expected of students who have completed this course. The value of the course will be materially increased by the addition of sight reading either in the same author or in one of the easier prose writers.

16. **Greek, Elementary.** (2 units.) The requirement includes a knowledge of prose forms and prose syntax, a good Xenophon vocabulary, and some knowledge of English derivatives. Forms and syntax are usually sufficiently drilled upon, but generally not enough attention is given to vocabulary and English derivatives. White's First Book, Xenophon's Anabasis, I.-IV., and Pearson's Composition, Parts I.-II., represent the work to be covered.

17. **Homer and Greek Composition.** (1 unit.) Homer's Iliad I.-III. and Pearson's Prose Composition are the minimum of preparation. In Homer, a knowledge of Homeric grammar and the prose equivalents of common poetical words, where there are such, and the ability to read Homer not only metrically but with expression, are essential. Some attention should also be given to character study and to Homeric life. In composition, the ability to do easy prose based on Xenophon is required.

18. **German, Elementary.** (2 units.) This requirement covers two years of high school German. A thorough knowledge of the elements of German grammar is expected and the ability to translate ordinary German into English at sight or English into German. A fair knowledge of poetry and evidence of solid composition work is also required.

19. **German, Intermediate.** (1 unit.) The ability to read at sight ordinary German prose or poetry, to translate easy English into German, to answer simple questions in German, and to give evidence of familiarity with the essentials of German grammar, including particularly the rules concerning the declension of adjectives and nouns, the conjugation of verbs and word order. Amount of reading required, about 400 pages.

20. **German, Advanced.** (1 unit.) German prose reading of the more difficult selections from standard authors. Poems memorized, composition work which leaves no doubt as to the thorough grammatical drill of the applicant. The candidate must be able to write in German, short, original themes upon assigned topics. Not less than 700 pages of good modern literature required.

21. **French, Elementary.** (2 units.) The essentials of grammar, including the regular and the most common irregular verbs, forms and positions of pronouns. The reading of at least 250 pages of modern prose. Easy composition and dictation. Conversation on the text read. Particular stress should be laid on correct pronunciation.

22. **French, Intermediate.** (1 unit.) Review of the essentials of grammar. Study of irregular verbs and the study of advanced grammar. Composition, written and oral. Reading of about 400 pages of prose by standard modern authors and one or two modern plays. Written analysis and criticisms on text read and conversation on the same. Sight

reading and translation. Special attention should be paid to the correct use of idioms.

23. French, Advanced. (1 unit.) The reading of about 800 pages of classical and modern French works by standard authors. The writing of numerous short themes either on topics of every day life or on the text read. Frequent discussions on the text read and advanced composition. The work to be conducted in French.

24. Spanish. (2 units.) Thorough work in grammar, with especial attention to verb drill, including the subjunctive. Sight reading and translation of about five hundred pages, including some poetry. Easy Spanish composition and original short themes.

25. Physics. (1 unit.) The requirement represents at least one daily exercise throughout the year (preferably the last) in academy or high school, and includes elementary mechanics, heat, sound, light, electricity and magnetism. There should be close relation between class work, lecture demonstration work and laboratory work. Emphasis should be placed on principles, application of principles to daily life, and ability to solve problems and to think. The class work should include the study of some standard, up-to-date text; such, for example, as Millikan and Gale's First Course in Physics. In the laboratory the student should individually perform with some accuracy at least thirty-five typical experiments, and should present at entrance

a well written note book, properly indexed, duly signed by the instructor.

26. Chemistry. (1 unit.) The completion of an elementary course in general chemistry is required, with practical work in the laboratory. The work is represented by that given in Newell's Descriptive Chemistry and Laboratory Manual. Note books, satisfactory to the head of the department, are also a part of the requirement.

27. Botany. (1 unit.) Applicants for credit in this subject must show ability, obtained during a full year's work of five exercises per week, to solve problems in the field and laboratory. It is not deemed sufficient to simply know terms. The applicant must be able to give intelligent explanations for local conditions. A well kept note book signed by the instructor must accompany the application. The pupil must have a general knowledge of plant morphology and physiology and also be able to recognize readily the common orders of flowering plants. The following texts or their equivalents suggest the scope of the work required: Osterhout's Experiments, Bergen's Elements of Botany.

28. Zoology. (1 unit.) The prerequisites for credit in this subject correspond in time and method to those called for in Botany. The scope of the work is suggested by the text of Linville and Kelly.

29. Physiology. (1 unit.) Credit will not be given for elementary physiology and hygiene done in the grammar grades. The work must at least have covered the equivalent of Martin's Human

Body. Four hours per week must have been spent in a well organized laboratory. Candidates must present note books signed by an instructor.

30. Physical Geography. (1 unit.) This course should have seven periods per week for one year, of which four should be arranged as double laboratory periods. The subject as presented in a text book should be supplemented by laboratory work, including experiments and map study. Records of this work should be kept in a note book, which should be presented as a part of the entrance requirement. The work should include the commonly accepted divisions of the subject, viz.: mathematical geography, the atmosphere, the ocean, and land forms.

31. General Science. (1 unit.) The requirement represents at least five forty-five-minute exercises a week for one year, of which two-fifths or more should be laboratory work. A record should be made of at least thirty-five experiments individually performed and the note book presented at entrance.

The aim of the course is not to present a vast, incoherent store of information touching every division of natural science, but is both to lay the foundation for future scientific work and to perform an important part in a general education. These purposes are accomplished by training the student to experiment carefully, to observe closely, to interpret intelligently both experiment and daily phenomena, and thus to grasp the fundamental principles and processes which underlie all natural science.

It is suggested that the course be based upon physical principles so related to the biological that one science will dovetail into another related in principles and applications. The chemical process of the burning of a candle is related to the burning of coal in the production of heat, to the oxidation of food in the body, to decay, and to life changes of wide application. Thus the course may well include such common basic phenomena and facts as: Oxidation; physical and chemical changes; composition of air, water, food, rocks and soil; physiological processes of life, growth and decay; hygiene and sanitation with reference to bacteria in the home, agriculture, disease and the industrial arts; uses and sources of foods; cycle of organic life and interdependence of plants, animals and man; influence of climatic, seasonal and geologic changes; relation of the earth to heavenly bodies.

32. Freehand Drawing. (1 unit.) The requirement represents a daily exercise of forty-five minutes for two years; the credit allowed, however, must be based on the amount and quality of the work accomplished, which must be submitted for examination.

The work should consist of studies of the principles of light and shade and perspective from geometric models, sphere, cube, prisms, etc., and other simple objects of similar form. They should be treated both singly and in groups.

33. Mechanical Drawing. (1 unit.) The requirement represents the work usually covered with a daily exercise of forty-five minutes throughout one

year. It should consist of exercises adapted to develop neatness and accuracy in the use of drawing instruments, geometrical figures and curves, free-hand lettering, and other exercises leading up to the technical courses. The student's work must be submitted for examination.

Requirements for Graduation

REQUIREMENTS FOR GRADUATION

No student is permitted to graduate who has not spent at least one year in resident study at the College.

The unit employed in reckoning college credits is one exercise per week in one subject continued through a semester. One hundred and twenty-eight of these units are required for graduation, sixty-eight to be completed normally in the Freshman and Sophomore years, and sixty in the Junior and Senior.

Courses of Study

The courses of study have been arranged with three objects in view:

1. General culture.
2. Special training in particular lines.

3. Free election on the part of the student of such subjects as harmonize best with his individual purpose.

To meet the requirement of general culture, certain subjects are prescribed in all courses leading to a degree, viz.:

Bible	8 units
English Literature.....	6 units
Rhetoric and Composition....	6 units

History	6 units
Mathematics	3 units
Science	6 units
Logic	3 units
Psychology	3 units
Ethics	3 units
Physical Training	4 units

Either before or after entrance, students in Group I. must have the equivalent of one college year, and students in all other groups the equivalent of two college years, of French or German.

Admission subject 13 or Latin A is required of all candidates for the degree of Bachelor of Arts.

To meet the requirement of special training, every student is expected to choose two departments in which to pursue advanced or Upper Division courses. Certain prerequisites, found among the Lower Division courses and extending ordinarily through the Freshman and Sophomore years, must first be completed; after which, Upper Division courses amounting to 18 units in the two departments chosen (6 being the minimum in either) must be completed before graduation. The dual groups from which this selection may be made are eleven in number, each furnishing the characteristic of one of the larger groups outlined on pages 50 to 55.

To meet the requirement of free election, every student is permitted to select a number of subjects, varying somewhat in amount according to the

group chosen, and subject only to the necessary sequence of courses within the several departments.

Provided all other requirements for graduation be fulfilled, each of the groups outlined on the following pages leads to one of two degrees, viz.:

Groups I.-VIII, Bachelor of Arts.

Groups IX.-XI, Bachelor of Science.

SYNOPSIS OF GROUPS

Explanation.—The letters in parenthesis at the head of each group show what groups of admission subjects (page 31) furnish the requisite preparation. The figures at the right hand show the number of units in each subject required for graduation, and are based on the minimum of specific requirements for entrance.

The subjects from Physical Training down to, but not including, Psychology belong mostly in the Freshman and Sophomore years. In Bible, however, a two-hour course is required of every student, either the first or the second semester of each year. Psychology and Logic are Junior subjects; Ethics comes in the Senior year.

An admission subject allowed to take the place of a college requirement does not reduce the number of

college credits necessary for graduation unless said subject is in excess of the fifteen units of admission subjects required for entrance. In that case a year subject taken five times a week in a preparatory school counts for three units of college credit.

L. D. stands for Lower Division courses.

U. D. stands for Upper Division courses.

Group I.
Latin-Greek
(A)

Latin (L. D.).....	12
Greek (L. D.).....	9
Latin } (U. D.).....	18
Greek }	
Physical Training....	4
Bible	8
English	
Rhet. and Comp....	6
Literature	6
French or German...*	10
Mathematics	3
Science	6
History	6
Psychology	3
Logic	3
Ethics	3
Electives	31
	128

*Where no French or German has been presented at entrance.

Group II. French-German (A, B, C)	Group III. English-Latin (A†)
French (L. D.).....*16	English (L. D.)
German (L. D.).....*6	Rhet. and Comp.... 6
French } German } (U. D.)....18	Literature 6
	Latin (L. D.).....12
Physical Training 4	English } Latin } (U. D.)....18
Bible 8	
English	
Rhet. and Comp.... 6	Physical Training 4
Literature 6	Bible 8
Latin*10	French or German...‡16
Mathematics 3	Mathematics 3
Science 6	Science 6
History 6	History 6
Psychology 3	Psychology 3
Logic 3	Logic 3
Ethics 3	Ethics 3
Electives 30	Electives 34
128	128

L. D. stands for Lower Division courses.

U. D. stands for Upper Division courses.

*Where two years of German have been offered at entrance, but no French or Latin.

†Admission subjects 16 and 17 not necessarily included.

‡Where no French or German has been offered at entrance.

Group IV. English-Greek (A, B, C)	Group V. English-French (A, B, C)
English (L. D.)	English (L. D.)
Rhet. and Comp. 6	Rhet. and Comp. 6
Literature 6	Literature 6
Greek (L. D.) *9	French (L. D.) †6
English } (U. D.) 18	English } (U. D.) 18
Greek }	French }
Physical Training 4	Physical Training 4
Bible 8	Bible 8
German }	Latin †10
French } *16	Mathematics 3
Latin }	Science 6
Mathematics 3	History 6
Science 6	Psychology 3
History 6	Logic 3
Psychology 3	Ethics 3
Logic 3	
Ethics 3	
Electives 37	Electives 46
128	128

L. D. stands for Lower Division courses.
 U. D. stands for Upper Division courses.

*Where three years of Greek have been offered at entrance and two of Latin or French or German. The equivalent of one college year of Latin and two college years of German or French is required, either before or after entrance.

†Where two years of French have been offered at entrance, but no Latin.

Group VI. English-German (A, B, C)		Group VII. English-History (A, B, C)	
English (L. D.)		English (L. D.)	
Rhet. and Comp.	6	Rhet. and Comp.	6
Literature	6	Literature	6
German (L. D.)	*6	History (L. D.)	12
English } (U. D.)	18	English } (U. D.)	18
German }		History }	
Physical Training	4	Physical Training	4
Bible	8	Bible	8
Latin	*10	French }	
Mathematics	3	German }	†16
Science	6	Latin }	
History	6	Economics	6
Psychology	3	Mathematics	3
Logic	3	Science	6
Ethics	3	Psychology	3
		Logic	3
		Ethics	3
Electives	46	Electives	34
	128		128

L. D. stands for Lower Division courses.
U. D. stands for Upper Division courses.

*Where two years of German have been offered at entrance, but no Latin.

†Where only two years of French or German or Latin have been offered at entrance. The equivalent of one college year of Latin and two of French or German is required either before or after entrance.

Group VIII. History-Economics (A, B, C)	Group IX. Mathematics-Physics (C)
History (L. D.).....12	Mathematics (L. D.).. 9
Economics (L. D.)... 6	Physics (L. D.).....12
History } (U. D.)..18	Mathematics } (U. D.)..18
Economics }	Physics }
Physical Training 4	Physical Training 4
Bible 8	Bible 8
English	English
Rhet. and Comp.... 6	Rhet. and Comp.... 6
Literature 6	Literature 6
French }	French }
German }*16	German }*16
Latin }	Latin }
Mathematics 3	Chemistry 6
Science 6	History 6
Psychology 3	Psychology 3
Logic 3	Logic 3
Ethics 3	Ethics 3
Electives 34	Electives 28
128	128

L. D. stands for Lower Division courses.
U. D. stands for Upper Division courses.

*Where only two years of French or German or Latin have been offered at entrance. In Groups II. to VIII. the equivalent of one college year of Latin and two of French or German is required, either before or after entrance. In Groups IX., X., and XI., this entire amount may be taken in French and German, if desired.

Group X. Chemistry-Biology (C)	Group XI. Chemistry-Physics (C)
Chemistry (L. D.)....13	Chemistry (L. D.)....13
Biology (L. D.).....10	Physics (L. D.).....12
Chemistry } (U. D.)..18	Chemistry } (U. D.)..18
Biology } (U. D.)..18	Physics } (U. D.)..18
Physical Training 4	Physical Training 4
Bible 8	Bible 8
English	English
Rhet. and Comp.... 6	Rhet. and Comp.... 6
Literature 6	Literature 6
French }	French }
German }*16	German }*16
Latin }	Latin }
Mathematics 3	Mathematics 12
Physics 6	History 6
History 6	Psychology 3
Psychology 3	Logic 3
Logic 3	Ethics 3
Ethics 3	
Electives 23	Electives 18
128	128

L. D. stands for Lower Division courses.
U. D. stands for Upper Division courses.

*Where only two years of French or German or Latin have been offered at entrance. The equivalent of three college years of French, German and Latin is required, either before or after entrance. In Groups IX., X., and XI. this may all be taken in French and German, if desired.

Departments of Instruction

DEPARTMENTS OF INSTRUCTION

Biblical Literature

Professor Burt

1. Pentateuch.

The five books of Moses are studied from the following viewpoint, viz.: The explanation of the origin of the world; the origin, nature and fall of man; the historical setting of the Covenant and the typical teaching concerning the Messianic person, period and work.

2 hours, first semester.

2. Historical Books of the old Testament.

The history of Israel is taken up where it was left off in course 1. The aim is to get the fuller historical setting of God's redemptive work.

2 hours, second semester.

3. Pauline Epistles.

These Epistles are studied to ascertain the author's doctrine concerning Salvation: for this purpose not merely his dialectic, but also his teaching concerning God, man and the God-Man are considered. Also the date, occasion and purpose of the Epistles are studied.

2 hours, second semester.

4. Prophecy.

The purpose of this course is to examine the office of the prophet, and to study the latter

prophets. Particular attention is given to the predictions concerning the Messianic period and person in relation to both Jews and Gentiles. Also the political environment of the prophet is considered.

2 hours, first semester.

7. Life of Christ.

This course is a study of the gospel records, together with prophetic and later evidence that "this is the Christ."

2 hours, one semester.

8. Acts, Hebrews and Epistles.

This course with those offered above covers the larger part of the Old and New Testament Scriptures. Acts gives us a history of the early church, while the Epistles present various phases of doctrine and life.

2 hours, one semester.

9. Comparative Religion.

A study of the great religions of the world, emphasizing the divine origin and the transcendent value of Christianity as the only religion for the world.

2 hours, first semester.

10. The History of Christianity.

A philosophic study of Christianity from Pentecost until 325. Emphasis is placed on the ability of Christianity to meet and to satisfy the fixed as well as the changing needs of the human race and to provide salvation for all.

2 hours, second semester.

Biology

Professor Esterly

Assistant Professor Cook

ZOOLOGY

LOWER DIVISION COURSES

1. Principles of Zoology.

The scope of this course is indicated by the name. Systematic zoology, morphology and physiology are covered, and topics of general interest as well as facts and theories connected with various lines of thought in the science are taken up from time to time. Instruction is by means of lectures and written quizzes and papers upon assigned topics.

3 hours, throughout the year (6 units).

Professor Esterly.

1A. Demonstration.

A laboratory course to accompany the lectures in course 1. It is supplementary to the lectures, but does not involve technical work of any kind aside from drawing. It is required of all students in course 1 who do not take course 2 or course 3. The class will be divided into sections of not more than ten students.

1 hour in the laboratory each week, first semester (1 unit).

Professor Esterly.

2. General Zoology.

A laboratory course, in which invertebrate types are studied, and the shark among vertebrates.

Course 2 must be taken by all who expect to pursue advanced courses in zoology.

Prerequisite, course 1 or its equivalent completed or in progress.

6 hours, first semester (2 units).

Professor Esterly.

3. General Zoology.

A laboratory course, intended to give some insight into vertebrate embryology, histology and anatomy. The development of the frog, toad, or salamander is followed, and the salamander and frog, one or both, are used in dissection.

Prerequisite, course 2.

6 hours, second semester (2 units).

Professor Esterly.

7. Field Zoology.

Principally a laboratory or field course, the aim of which is to enable students to become acquainted with the higher vertebrates, especially the birds inhabiting this region. The number of students is limited to ten.

Prerequisite, at least Zoology 1.

1 afternoon in the field weekly, second semester (1 unit).

Professor Esterly.

UPPER DIVISION COURSES

4. Anatomy of Vertebrates.

Lectures and laboratory. The course aims to cover the higher vertebrate groups in a comprehensive way. The cat is the principal subject of dissection, though a bird or reptile may be included.

Prerequisite, courses 1, 2 and 3.

6 hours in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Professor Esterly.

5. Cytology and Histology.

Lectures and laboratory. The animal cell is studied in its various phases of activity, and the microscopical anatomy of various tissues and organs of vertebrates is taken up. There is constant practice in the use of reagents and stains, and in the preparation of mounts and series of sections for the microscope. Not given in the same year with course 6.

Prerequisite, courses 1, 2 and 3.

9 hours in the laboratory and 2 hours of lectures or recitations, second semester (5 units).

Professor Esterly.

6. Embryology.

Lectures and laboratory. The development of vertebrates is studied by means of a text-book supplemented by lectures. There is constant practice in the laboratory in embryological methods, the principal objects of study being the chick and the pig. Not given in the same year with course 5.

Prerequisite, courses 1, 3 and 4.

9 hours in the laboratory and 2 hours of lectures or recitations per week, second semester (5 units).

Professor Esterly.

BOTANY**1. Morphology of Cryptogams.**

A progressive study of the lower plants based on the structure of the reproductive organs and processes.

Prerequisite, elementary chemistry.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Assistant Professor Cook.

2. Flowering Plants.

A study of the structure and physiology of the higher plants.

Prerequisite, elementary chemistry.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, second semester (4 units).

Assistant Professor Cook.

Chemistry

Professor Chandler

Assistant Professor Fiske

Assistant Kreider

LOWER DIVISION COURSES**A. General Inorganic Chemistry.**

Smith's General Chemistry for Colleges, and

Smith and Hale's Laboratory Outline of General Chemistry used.

Open to all students. Those who complete this course and desire to continue the subject should consult the head of the department.

3 hours of lectures and recitations and 1 three-hour period in the laboratory, throughout the year (8 units).

1. General Inorganic Chemistry.

Chemical laws and principles and the chemistry of the metals and non-metals, both individually and as related to each other in qualitative analysis. Lectures and recitations. Texts, Smith's General Chemistry for Colleges and Morgan's Qualitative Analysis.

Prerequisite, admission subject 26 or equivalent.

3 hours, throughout the year (6 units).

2. Qualitative Analysis.

General chemical reactions and the separation and identification of the common metallic and non-metallic elements and radicals. To accompany course 1.

6 hours, first semester (2 units).

3. Qualitative Analysis.

A continuation of course 2. Morgan's Qualitative Analysis is used as a manual in courses 2 and 3, which are intended to accompany course 1.

6 hours, second semester (2 units).

4A. Quantitative Analysis.

Simple gravimetric and volumetric determinations. Laboratory work with occasional lectures upon the methods and principles involved.

Prerequisite, course 3.

9 hours, either semester (3 units).

4B. Mineral Analysis.

Quantitative determination of the constitution of rocks and minerals by the methods of gravimetric and volumetric analysis. Talbot's Quantitative Analysis is used in courses 4A and 4B.

Prerequisite, course 4A completed or in progress.

9 hours, either semester (3 units).

UPPER DIVISION COURSES**5. Organic Chemistry.**

Chemistry of the aliphatic and aromatic compounds. Lectures and recitations.

Prerequisite, course 4A.

2 hours, throughout the year (4 units).

6. Organic Chemistry Laboratory.

Preparation and reactions of typical organic compounds. Garrett and Harden's Practical Organic Chemistry used.

Prerequisite, course 5 completed or in progress.

9 hours, either semester, or its equivalent in a year's course (3 units).

7. Elements of Physical Chemistry.

Lectures and recitations covering the elementary principles of physical chemistry.

Prerequisite, course 4A and Physics 2A.

2 hours, throughout the year (4 units).

8. Advanced Chemistry Laboratory.

Special methods in quantitative analysis, including water analysis, gas analysis, electrolytic analysis and assaying; organic and inorganic preparations; physical chemistry measurements. The student may choose from these subjects and so fit himself for technical or research work.

Prerequisite, course 4B.

9 hours, either or both semesters (3 or 6 units).

Economics and Sociology

Professor Stevenson

Courses 1 and 3 are recommended to students who expect to take only one year's work in this department; but such students may register for courses 1 and 2.

Courses 1 and 2 are intended primarily for Juniors and Seniors, but they are open to Sophomores who expect to take upper division courses in economics.

LOWER DIVISION COURSES**1. Economics.**

An introductory course dealing with essential facts and principles, and prerequisite to all other courses. The text book will be followed in the order of topics and the general manner of treatment; but full and free discussion of controverted points will be required, together with careful reading of standard authorities, and preparation of papers on assigned topics.

3 hours, first semester.

2. Money and Banking.

The fundamental principles of monetary theory, the history and the practice of banking, and discussion of current problems and legislation. Text-books, lectures and papers.

Prerequisite, course 1.

3 hours, second semester.

UPPER DIVISION COURSES

History 1 is prerequisite to all upper division courses in this department. Additional prerequisites are stated below.

Two upper division courses are offered each year. 3 and 4 will be given in 1910-11.

3. Sociology.

An introduction to sociological theory, with incidental discussion of the practical problems relating to social reforms and with constant reference to the influence of Christianity on the de-

velopment of modern society. Lectures and assigned readings.

Prerequisite, course 2; but courses 2 and 3 may be taken in the reverse order, in which case 2 will be counted as an upper division course and 1 and 3 as its prerequisite.

3 hours, first semester.

4. Practical Sociology.

The application of sociological principles to charity, criminology, and constructive social work. Lectures, the literature of the subject, and personal investigation. Los Angeles offers ample opportunity for field work in the many institutions and conditions that illustrate nearly every phase of social health and social disease.

Prerequisite, course 3.

3 hours, second semester.

5. Public Finance.

A study of public revenue and expenditure and of financial administration, with special reference to the principles and practice of taxation in the United States.

Prerequisite, courses 1 and 2.

3 hours, first semester.

6. Modern Industrialism.

A critical study of the problems arising from present industrial conditions—the relation of labor and capital, combinations, etc.—and of current questions of special interest and importance.

Prerequisite, course 5.

3 hours, second semester.

7. Advanced Economics.

A detailed examination of selected subjects treated less fully in course 1. Special attention is given to topics that bear on the relation between the present social order and the distribution of wealth. Text-books and lectures.

Prerequisite, course 5.

3 hours, second semester.

Education

Professor Cook

1. History of Education, Earlier Period.

The Biblical idea of education. Educational theory and practice in Greece and Rome, and in the leading nations of Europe during the Middle Ages. Lectures. Monroe's History of Education. Laurie's Historical Survey of Pre-Christian Education. To alternate with course 2. Open to Juniors and Seniors.

3 hours, first semester.

2. History of Education, Later Period.

Educational theory and practice in the more advanced nations of modern times. Lectures. Monroe's History of Education. Quick's Educational Reformers. Supplementary reading. To

alternate with course 1. Open to Juniors and Seniors.

3 hours, first semester.

3. Pedagogy.

Application of ethical principles, and of the sciences of logic, rhetoric, psychology, and physiology to education. The aim will be to give a comprehensive view of the educational process, and to acquaint the student with the best ways and means of promoting physical health and vigor, and of cultivating the senses, intellect, feelings, will and conscience, and the most approved methods of teaching the subjects usually studied in elementary schools. Lectures. Bagley's *Educative Process*. Harris, *Psychologic Foundations*. Supplementary reading. To alternate with course 4. Open to Juniors and Seniors.

3 hours, second semester.

4. Philosophy of Education.

The course will include a study of the aim, the meaning, and the individual and social aspects of education, educational values, the curriculum, correlation of studies, interest, attention, the art of study, qualifications of teachers, method of the recitation, laws of teaching. Lectures. Horne's *Philosophy of Education*. McMurray's *General Method and Method of the Recitation*. Supplementary reading. To alternate with course 3. Open to Juniors and Seniors.

3 hours, second semester.

English

Professor Cooper
Assistant Professor Odell
Assistant Edna Blee

LOWER DIVISION COURSES

1. **Rhetoric and Composition.**

Drill in the elements of effective prose. Description and narration, first semester; exposition, second semester. Daily practice in composition. Required in all courses, freshman year.

2 hours, throughout the year (4 units).

Assistant Professor Odell.

2. **Advanced Composition.**

Exposition and argument. Study of models and text. Daily practice in the preparation and presentation of material. Required in all courses.

Prerequisite, course 1.

2 hours, first semester.

Assistant Professor Odell.

3. **History of the English Language.**

Historical English grammar, with illustrative selections from Old and Middle English Literature.

2 hours, second semester.

Assistant Professor Odell.

5. Early Nineteenth Century Prose.

Lamb, DeQuincey, Landor, Macaulay. A study of representative works of these writers, with special reference to qualities and varieties of prose style. Designed particularly to fit students for the more advanced courses in literature. Required alternately with course 6.

3 hours, first semester.

Professor Cooper.

6. Victorian Prose Writers.

Carlyle, Ruskin, Arnold, Stevenson. Required alternately with course 5. Omitted in 1910-1911.

3 hours, first semester.

Professor Cooper.

7. Victorian Poets.

Tennyson, Browning, Rossetti, Morris, Swinburne. Emphasis on the elements of poetic form and poetic criticism. Introductory to more advanced courses in poetry. Required in all courses; sophomore year.

3 hours, second semester.

Professor Cooper.

8. Public Speaking.

Practice in the preparation and delivery of declamations, speeches, orations, and other forms of public address, with some study of the principles of vocal expression.

Prerequisite, course 2.

2 hours, first semester.

Assistant Professor Odell.

9. Oral Debate.

Written and oral work. Analysis, brief-making, and debating. The class is divided into two sections, each section debating once a week on a question previously assigned. During the semester every member of the class prepares and presents one forensic.

Prerequisite, course 2.

2 hours, second semester.

Assistant Professor Odell.

UPPER DIVISION COURSES

Courses 1, 2 and 7, together with either 5 or 6, are prerequisite to all upper division courses.

11. Early Nineteenth Century Poets.

Wordsworth, Coleridge, Byron, Shelley, Keats. A study of the romantic movement of the early part of the nineteenth century.

3 hours, second semester.

Professor Cooper.

12. Shakespeare.

The principal plays read chronologically, with special attention to the development of Shakespeare's mind and art.

3 hours, first semester.

Professor Cooper.

13. Nineteenth Century Novelists.

Jane Austen, Scott, Dickens, Thackeray, George Eliot.

3 hours, first semester.

Professor Cooper.

14. The Short-Story.

A course in Short-Story writing, based on a study of the masterpieces of the art, with special reference to principles of construction.

2 hours, second semester.

Professor Cooper.

15. The Elizabethan Age and the Puritan Period.

A course in the poetry of the period, with emphasis on the work of Spenser and Milton.

3 hours, first semester.

Professor Cooper.

16. Restoration and Eighteenth Century Literature.

A survey of the leading poets and prose writers from Dryden to Burns, with emphasis on the rise of the romantic school.

3 hours, second semester.

Professor Cooper.

17. Milton.

The study of "Paradise Lost." (Omitted in 1910-1911.)

2 hours, second semester.

Professor Cooper.

18. Thesis.

In connection with any of the upper division courses, the student may, with the permission of the instructor, write a thesis embodying some piece of research.

1 unit, either semester.

Professor Cooper.

Assistant Professor Odell.

19. Anglo-Saxon.

First semester: The outlines of Anglo-Saxon grammar. Bright's Anglo-Saxon Reader is used.

Second semester: Beowulf.

During the year, English literature from the beginning to the Norman Conquest.

3 hours, throughout the year (6 units).

Assistant Professor Odell.

20. Chaucer and His Contemporaries.

A detailed literary and linguistic study of a large number of the Canterbury Tales, with some study of Chaucer's contemporaries and his age.

3 hours, second semester.

Assistant Professor Odell.

French

Profesor Bell

LOWER DIVISION COURSES**1. Elementary.**

First semester. Thorough drill in fundamental rules of grammar with daily oral and written exercises. Reading short stories and conversation on text read.

Second semester: Drill on irregular verbs, idioms, elements of syntax. Reading of prose by modern authors. Easy composition. Special attention is given to acquiring a vocabulary. French being a living language, great attention

is paid in this and the following courses to correct pronunciation and accentuation.

5 hours, throughout the year (10 units).

2. Modern Prose and Dramatic Writers.

First semester: General review of grammar, dictations in French, written and oral composition. Reading: Short stories by modern authors, at least one modern play. Conversation based upon the texts read.

Second semester: Written and oral composition. Reading: one or two modern plays, modern prose. Written resumés in French and practice in conversation.

Prerequisite, admission subject 21 or course 1.

3 hours, throughout the year (6 units).

UPPER DIVISION COURSES

3. Composition and Classics.

First semester: Advanced composition. Reading: prose by Sand, Balzac, Rostand and others. Themes and conversation on works read. Sight translation of prose. Classics by Molière, Racine and others.

Second semester: Advanced composition. Reading: History of France conducted in French, with written exercises on assigned topics.

Prerequisite, course 2.

3 hours, throughout the year (6 units).

4. History of French Literature.

This course is intended to give the student ample practice in French conversation while affording a bird's-eye-view of what France has done and is

doing in the world of thought. Outside reading of some of the works of certain authors, with written reports, will be required. Difficult composition and a review of grammatical principles will be given from time to time. Not to be given in the same year with course 5.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

5. French Literature in the Nineteenth and Twentieth Centuries.

Lectures, themes and collateral reading. Course conducted in French. Not to be given in the same year with course 4.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

Geology and Mineralogy

Professor Fiske
Assistant Kreider

1. General Geology; Dynamical and Structural.

Lectures and recitations.

Prerequisite, elementary courses in Physiography or General Science or Physics, Chemistry, Botany or Zoology.

2 hours, first semester.

2. General Geology, Historical.

Lectures and recitations.

Prerequisite, course 1.

2 hours, second semester.

3. Field Geology.

This course involves a careful study of the geological condition in and around Highland Park, including both the mountains and the sea; the drift, dip and strike of rock-strata and the various processes now at work to change the surface of the land. The work includes the construction of topographical maps of the region and the out-crop of strata in more specific cases. Students are required to present reports showing the results of their observations in the field, while photographs of field observations, lantern slides, maps, diagrams, etc., etc., are used extensively in class room work. This course to accompany course 1.

3 hours, first semester (1 unit).

4. General Paleontology.

The work of this course is conducted both in the field and laboratory, and is accompanied by occasional lectures and recitations. It involves a study of the development of life on the earth from its beginning to the present; the geological and geographical relationship of the various fossil forms, both of plants and animals, together with the characteristic and dominant species of the different divisions of geological time. Constant use is made of the College collection of fossils, while occasional excursions are made to fossil-bearing regions for the purpose of studying them as they occur in the earth. This course to accompany course 2.

3 hours, second semester (1 unit).

5. Mineralogy, Physical and Descriptive.

Lectures and laboratory. The course involves a study of elementary crystallography, the physical and chemical characters of minerals, a microscopical study of mineral sections and the descriptive study of typical minerals found in the College collection. The object is to familiarize the student with the common minerals about him and to enable him to recognize them on coming in contact with them in the field.

Prerequisite, elementary course in chemistry.

1 hour lecture and recitation and 3 hours laboratory, first semester (2 units).

6. Mineralogy, Determinative and Economic.

Lectures and laboratory. The lectures of this course involve a study of the origin, characteristics and distribution of metalliferous veins; the useful metals, their occurrence, relation to each other and the processes employed in obtaining them from their ores; as well as the occurrence, preparation and uses of numerous products of commercial importance, such as the common fuels, marbles, slates, clays, borax and salt. The time in the laboratory is devoted to the determination and classification of unknown mineral species, many of which are picked up by the student either on special excursions or in his daily walks.

Prerequisite, course 1 or its equivalent.

1 hour lecture and recitation and 3 hours laboratory, second semester (2 units).

The work in geology and mineralogy extends through the year, during which time special atten-

tion is given to the reading of current geological literature, while each semester a carefully prepared paper on some historical or economic subject is required of the student.

German

Professor Miller

LOWER DIVISION COURSES

1. Elementary.

Thomas's Practical German Grammar, Parts I. and II., including Exercises in Syntax in Part II.; Bacon's German Reader; Eckstein's Der Besuch im Karzer; Baumbach's Der Schwiegersohn; Manley and Allen's Four German Comedies. Conversation on the text read.

5 hours, throughout the year (10 units).

2. Modern Prose and Poetry.

Freytag's Der Rittmeister von Alt-Rosen; Hauff's Lichtenstein; Sudermann's Frau Sorge; Deutsches Liederbuch. Pope's German Composition. German conversation.

Prerequisite, admission subject 18 or course 1.

3 hours, throughout the year (6 units).

UPPER DIVISION COURSES

3. Schiller.

Dramas: Wilhelm Tell, Maria Stuart, Die Jungfrau von Orleans, Wallenstein.

Prose: Selections from the Geschichte des Dreissigjährigen Kriegs.

Poems: Nollen's edition. Conversation and composition. Fassler's Practical German Conversation.

Prerequisite, course 2.

3 hours, throughout the year (6 units).

4. Goethe.

Dramas: Egmont, Iphigenie auf Tauris, Torquato Tasso and Faust. Prose: Selections from Dichtung und Wahrheit. Poems: Harris' edition. Composition: Whitney and Stroebe's Advanced German Composition. Given in 1910-11 and in alternate years.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

6. Nineteenth Century Drama.

Selected dramas of Kleist, Grillparzer, Hebbel, Ludwig, Gutzkow, Sudermann and Hauptmann. Original composition. Given in 1911-12 and in alternate years.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

Greek

Professor Higgins

Students may enter this department with three years of preparatory Greek, with two years or with none. It is possible for the last-named to make Greek the minor subject of their group, but not the major.

LOWER DIVISION COURSES

A. Elementary.

- (a) Beginning Book, Goodwin's Grammar.
- (b) Xenophon's Anabasis I.-IV., with sight reading in the Gospel of John (White).

This course aims to cover thoroughly the work of the first two years of preparatory Greek and is intended for those who enter without matriculation credit in the subject.

5 hours, throughout the year (10 units).

B. Lysias and Homer.

- (a) Easy selections from Lysias, or an equivalent.
- (b) Homer's Iliad I.-III. Metrics.

Prerequisite, admission subject 16 or course A.

3 hours, throughout the year (6 units).

1. Homer.

Iliad. A critical study of selections from Books IX.-XXIV, amounting to six books. Frequent sight tests. Essays on Homeric topics.

Prerequisite, admission subject 17 or course B.

3 hours, first semester.

2. Plato.

Apology and Crito, Phaedo. Next to an accurate understanding of the text of Plato, attention is given to the life and teachings of Socrates.

Prerequisite, course 1.

3 hours, second semester.

3. Euripides.

Iphigenia among the Taurians, and Alcestis. An introduction to Greek tragedy. Study of meters. Lectures on the Greek drama.

Prerequisite, course 2.

3 hours, first semester.

4. Thucydides, Demosthenes.

Thucydides, Book VII. Demosthenes, Philip-pics. Introduction to two important periods of Greek history. Collateral reading.

Prerequisite, course 3.

3 hours, second semester.

7. Greek Life and Literature.

A course of lectures on Greek life and literature, supplemented by required reading, reports and written tests. A History of Greek Literature will be used. A knowledge of Greek is desirable but not required. Offered in 1910-1911.

Open to all students.

2 hours, first semester.

8. Prose Composition.

Murray. For those preparing to teach Greek in

the high schools of California, this course is essential. It should follow course 3.

2 hours, second semester.

UPPER DIVISION COURSES

Prerequisite, courses 1, 2 and 3, to which it is better to add 4. Two upper division courses are offered each year.

11. Plato.

Republic. Selections equivalent in amount to the Gorgias. A course valuable not only for students specializing in Greek, but for those pursuing ethics, sociology or education as well. The place of Plato in Greek philosophy.

3 hours, first semester.

12. Lyric Poets.

Selected. Development of the lyric. Lyric meters.

3 hours, second semester.

13. Herodotus.

Books VII and VIII. Close study of contemporary history. Stylistic and dialect study.

3 hours, first semester.

14. Aeschylus, Sophocles.

Aeschylus: Prometheus or Agamemnon. Sophocles: Oedipus the King or Antigone. The place of Aeschylus and Sophocles in the Greek drama.

3 hours, second semester.

15. Aristophanes.

Clouds, Frogs. Contrast between Greek comedy and tragedy. Comedy as a mirror of the times.

3 hours, first semester.

16. Odyssey.

First twelve books. Special study of Greek mythology. Contrast between the Odyssey and the Iliad. Literary influence of Homer.

3 hours, second semester.

History

Professor Cunningham

LOWER DIVISION COURSES

1A. History of England.

A general view of the political history of England to 1603. Special study of English constitutional history.

3 hours, first semester.

1B. History of England.

A general view of the political history of England from the seventeenth to the twentieth century. Special study of Imperial England.

3 hours, second semester.

2A. History of Western Europe.

A survey of the history of Western Europe to the sixteenth century. Special study of civilization during the Middle Ages.

3 hours, first semester.

2B. The Renaissance and Reformation.

The Renaissance: A study of the transition from medieval to modern thought. The Reformation:

A study of the Protestant reformation in Northern Europe.

3 hours, second semester.

UPPER DIVISION COURSES

Courses 1 and 2 are prerequisite to all upper division courses in history. 5A and 5B are given in alternate years with 6A and 6B.

3. History of Greece.

A study of the history of Greece in which special emphasis is laid on the ages of Pericles and Demosthenes.

3 hours, first semester.

4. History of Rome.

A general survey of the history of Rome to the death of Caesar. Special study of the development of the constitution and the growth of Caesarism.

3 hours, second semester.

5A. American History 1492-1783.

Beginning of the American nation: the European inheritance. American colonial history: growth of colonial institutions. Causes of the Revolution: growth of independence. Omitted in 1910-1911.

3 hours, first semester.

5B. American History from 1783.

A study of national development; the government, the expansion, and the development of the United States. Omitted in 1910-1911.

Additional prerequisite, course 5A.

3 hours, second semester.

6A. Modern European History.

A general survey of the history of Europe in the eighteenth century. Special study of the French Revolution and the Napoleonic era.

3 hours, first semester.

6B. Modern European History.

A general survey of the history of Europe in the nineteenth century. Special study of the national leaders and social reforms.

3 hours, second semester.

Latin

Professor Ward

LOWER DIVISION COURSES**A. Elementary.**

Beginner's Book. Caesar's Gallic War, Books I.-IV. Prose composition. Intended for those who lack the minimum requirement in Latin for the A.B. degree.

5 hours, throughout the year (10 units).

1. Livy.

The larger portion of books XXI. and XXII. is read, with particular attention to the syntax and Livy's qualities as a writer and historian. Collateral reading on the history of the period.

Prerequisite, admission subjects 14 and 15.

3 hours, first semester.

2. Horace and Cicero.

Horace: Odes and Epodes. Cicero: De Amicitia or De Senectute. Lyric meters. Political conditions at the beginning of the empire.

Prerequisite, course 1.

3 hours, second semester.

3. Plautus and Terence.

Plautus: Captivi and Trinummus. Terence: Phormio. Meters, early forms and constructions, Roman and Greek life.

Prerequisite, course 2.

3 hours, first semester.

4. Tacitus and Pliny.

Tacitus: Agricola and Germania. Pliny the younger: selected letters. Investigation of social and political conditions under the empire.

Prerequisite, course 3.

3 hours, second semester.

5. Prose Composition I.

For those preparing to teach Latin in the high schools of California, this and the following course are essential.

Prerequisite, admission subjects 14 and 15.

2 hours, first semester.

6. Prose Composition II.

Prerequisite, course 5.

2 hours, second semester.

UPPER DIVISION COURSES

Course 4 is the common prerequisite for all upper division courses in this department. Two of these besides 13 are offered each year. 9 and 15 will be given in 1910-1911. An additional prerequisite to course 13 is course 6.

7. Horace and Juvenal.

Horace: Satires and Epistles. Juvenal: selected Satires.

3 hours, first semester.

8. Tacitus.

Selections from the Annals. Collateral studies in the history of the empire.

3 hours, second semester.

9. Lucretius.

De Rerum Natura: Books I., III. and V., with extended sight reading in the other three books. The Epicurean system and its poetic treatment at the hands of Lucretius.

3 hours, first semester.

10. Seneca.

Moral essays, accompanied by a close examination of Stoicism as a creed and of its influence upon Roman life.

3 hours, second semester.

11. Catullus, Tibullus and Propertius.

Selections. Influence of Alexandrinism. Roman morals. Literary coteries of the times.

3 hours, first semester.

12. Roman Comedy.

Plautus: Rudens and Mostellaria. Terence: Andria and Adelphi. Lectures on the Roman Drama.

3 hours, second semester.

13. Prose Composition III.

2 hours, one semester.

15. Seneca.

Tragedies: Hercules Furens, Troades, Medea. Comparison with the masters of Greek tragedy, particularly Euripides. Seneca's handling of Greek meters and mythology.

3 hours, second semester.

Mathematics and Astronomy

Professor Allen

Assistant Professor Cook

MATHEMATICS

LOWER DIVISION COURSES

A. Solid Geometry.

The properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids and the regular solids, of cylinders, cones and spheres, of spherical triangles, and the measurement of surfaces and solids.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

Assistant Professor Cook.

B. Plane and Spherical Trigonometry.

The development of the general formulae of trigonometry. The theory and use of logarithms. The application of trigonometry to numerous problems in plane and spherical mensuration.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

Assistant Professor Cook.

1. College Algebra.

This course includes the development and application of the binominal theorem and of the exponential and logarithmic series, permutations and combinations, and the theory of equations.

Prerequisite, admission subjects 4 and 6.

3 hours, first semester.

Professor Allen.

3. Plane Analytics.

A study of analytic methods, the analytic geometry of the straight line, the circle, and the conic sections, and investigation of the general equation of the second degree.

Prerequisite, admission subject 8 or course B.

3 hours, second semester.

Professor Allen.

4. Differential Calculus.

The principles and formulae of differential calculus, and the application to such problems as maxima and minima, indeterminate forms, expansion of series, etc.

Prerequisite, courses 1 and 3.

3 hours, first semester.

Professor Allen.

10. Surveying.

The department is equipped with a transit, Y level, Gunter's chain, steel tape, leveling rod, planimeter, slide rules, highly graduated protractor, parallel rules, etc. The principles of land surveying, irrigation, and railroad engineering will engage the attention of the class in actual field work, and the reduction of the field notes to plots drawn to scale.

Prerequisite, courses A and B.

3 hours, second semester.

Professor Allen.

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UPPER DIVISION COURSES

The following will be ranked as Upper Division courses only when preceded by course 4. Astronomy 2 and Physics 3 may be counted as Upper Division courses in Mathematics if preceded by Mathematics 4.

6. Integral Calculus.

The principles and formulae of integral calculus, with application to problems in integration, such as lengths of curves, areas, volumes, etc.

Prerequisite, course 4.

3 hours, second semester.

Professor Allen.

8. Theory of Equations.

The theory of determinants; the theory, analysis, and solution of higher numerical and algebraic equations. Omitted in 1910-11.

Prerequisite, courses B and 1.

3 hours, first semester.

Professor Allen.

9. Higher Analytics.

A more advanced course than course 3, including a study of higher plane curves and the elements of solid analytic geometry.

Prerequisite, course 3.

3 hours, first semester.

Professor Allen.

ASTRONOMY

1. General Astronomy.

A course in descriptive astronomy. Simple problems and questions, involving the fundamental principles of astronomy. Study of nebulae, planets, and constellations, with the telescope.

Prerequisite, admission subject 8 or Mathematics B.

3 hours, first semester.

Professor Allen.

2. Practical Astronomy.

Lectures and observatory work. The determination of time, latitude, and longitude, and the computation of current eclipses and occultation of stars.

Prerequisite, admission subject 7, Mathematics 3, Astronomy 1.

3 hours, second semester.

Professor Allen.

Mechanical Drawing

Instructor Westcott

The courses cover such fundamental principles of Mechanical Drawing as are essential to the student pursuing science and engineering courses. They prepare for advanced courses in design, especially along architectural and mechanical engineering lines. Advanced work in any branch of the subject may be arranged in particular cases upon consultation. Work in course 3 must begin with the first semester; in other courses with either.

1. Instrumental Drawing.

(a). Linear drawing, freehand lettering, geometrical problems and constructions, mathematical curves.

(b). Mathematical curves continued, elementary principles of projection in the third quadrant, helical curves.

Open to all students.

3 hours, throughout the year (2 units).

2. Orthographic Projection.

(a). Problems in projection, intersection of solids, development of surfaces.

(b). Application of the foregoing principles to working drawings, isometric projection, shop sketching. This course is suitable for those who desire a working knowledge of mechanical drawing but who may not find it desirable to take the more extended course in Descriptive Geometry.

Prerequisite, course 1.

3 hours, throughout the year (2 units).

3. Descriptive Geometry.

(a). Basic principles, problems on point, line and plane, curved surfaces, sections, intersections.

(b). Shades, shadows and perspective.

The course involves the study and discussion of the elements of drawing from the theoretical side. The problems are adapted to stimulate analytical and constructive thinking. Many are so chosen as to show the application of theory to the practical work of the engineer and draftsman. From one to three hours per week are devoted to recitation or lectures, the balance to work at the drawing board.

Prerequisite, course 1 and Mathematics A.

6 hours, throughout the year (4 units).

4. Machine Drawing.

Machine details, bolts and nuts, screw threads, machine movements, cam, lever and link, spur and bevel gears. Complete shop drawings of machines, assembly drawings, tracings, blue prints, titles.

Prerequisite, course 2 or 3.

3 hours, throughout the year (2 units).

5. Architectural Drawing.

A course familiarizing the student with the technical terms used in architectural practice and building construction, the purpose and principles of detail, plan drawing and architectural rendering. The details of the work done may be varied to suit the special needs of the student, the object being to provide a thorough founda-

tion of elementary knowledge in the subject upon which to base advanced work. The classroom work is supplemented by lectures on drafting room practice, visits to the office of some architect and the inspection of buildings under construction.

Prerequisite, course 2 or 3.

3 hours, throughout the year (2 units).

6. Statics—Graphic and Algebraic.

The analysis of statical problems by both graphic and algebraic methods, showing the relation of the two and their relative advantages and disadvantages. The problems advance from simple forms of composition and resolution of forces to the complex application of those principles in the determination of strains in frames such as bridge and roof trusses in their various forms, girders, the cantilever, etc.

Prerequisite, course 1 and Mathematics B.

3 hours, throughout the year (2 units).

Philosophy

Professor Handley

1. Psychology.

This course is a study of the most general elementary and developed forms of consciousness. Ladd or equivalent is used for text. Required of Juniors.

3 hours, first semester.

2. Logic.

The principles of Deductive and Inductive Logic are studied and applied in practical work. The purpose is to so familiarize the student with the laws of thought that they be made of practical advantage. Required of Juniors.

3 hours, second semester.

3. Ethics.

The philosophy of the moral life is studied from the historical, psychological, philosophical and sociological aspects. Mackenzie or equivalent used as text. Required of Seniors.

3 hours, first semester.

4A. History of Ancient Philosophy.

An examination of the thought of the Greek period with special emphasis upon the systems of Plato and Aristotle. Junior-Senior elective.

3 hours, first semester.

4B. History of Modern Philosophy.

An examination of the principal systems of modern thought from Bruno to the present day. Junior-Senior elective.

3 hours, second semester.

5. Theism.

A study of the theistic arguments together with an examination of the anti-theistic theories. Junior-Senior elective.

3 hours, second semester.

Physical Training

George W. Braden, Director

Frank H. Gorton, Instructor in Athletics

Neil C. Trew, M. D., Medical Examiner for Men

Mary Hagadorn, M. D., Medical Examiner for
Women

This department is concerned with the health and physical development of the students. The importance of right habits of exercise, diet, dress, bathing, rest and recreation, is emphasized. Medical and physical examinations are required of all students on entering the college. Abnormal tendencies are noted and medical attention advised when necessary. Students having organic heart trouble or any other weakness which would make it dangerous for them to indulge in vigorous exercise are prevented from taking part in athletic competition or heavy gymnastics.

1. For Men.

The instruction includes calisthenics with dumb bells, light and heavy work on side horse, parallel bars, horizontal bar, ladder and mats, gymnastic games and athletics. As largely as possible the work is adapted to individual needs. The exercises are of the hygienic type rather than those requiring a great amount of skill. Movements which are safe, easy and beneficial, are used in the general work. Those who differ in

muscular co-ordination are placed in separate squads under a leader and given exercises adapted to their needs. The physiological effect of an exercise is considered rather than grace of movement. Those who have acquired considerable strength and skill are permitted to join the squad-leaders' class. Instruction in the leaders' class includes advanced exercises in heavy apparatus, wrestling, boxing and tumbling. Required of the young men.

2 hours, through the Freshman and Sophomore years (4 units).

2. For Women.

The instruction includes marching, maze running, fancy steps, calisthenics with and without such movable hand apparatus as dumb bells, wands and Indian clubs, light apparatus work, and recreative games, such as volley ball, basket ball, medicine ball, three deep, etc. The exercises are adapted to individual needs, and are both corrective and hygienic. Exercises liable to cause strain or nervous exhaustion are avoided. Movements requiring a considerable amount of co-ordinating ability are taken up gradually. The leaders' class provides opportunity for advanced pupils to receive special instruction. The regulation costume is black bloomers and blouse trimmed in orange, and white tennis shoes. Required of the young women.

2 hours, through the Freshman and Sophomore years (4 units).

Physics

Professor Adams

Assistant Professor Anderson

LOWER DIVISION COURSES

A. Elementary Laboratory Physics.

This course is intended for those who, not having presented physics for admission, desire some acquaintance with the subject matter and methods of the science. The course emphasises the experimental and practical aspects of the subject.

2 hours of lectures and recitations and 1 three-hour laboratory period, throughout the year (6 units).

1. General Physics.

A systematic development of the fundamental ideas and principles of physics is the aim of this course. The lectures include both experimental demonstrations and elementary mathematical treatments. Crew's General Physics, supplemented by laboratory manuals, is used as a text book.

Prerequisite, admission subjects 8 and 25.

3 hours of lectures and 1 three-hour laboratory period, throughout the year (8 units).

2A. Optical and Electrical Measurements.

In this course the theories of geometrical and physical optics are developed, and are verified by exact measurements in the laboratory. An introduction to electrical measurements is included.

Prerequisite, course 1. Mathematics 4 must precede or accompany.

3 hours of lectures and recitations and 1 three-hour laboratory period, first semester (4 units).

UPPER DIVISION COURSES**2B. Advanced Electrical Measurements.**

The laboratory work of this course consists of exact measurement and comparison of resistance, capacity and inductance. The lectures deal with the theory of the methods employed and with the industrial applications depending on them.

Prerequisite, course 2A and Mathematics 4. Mathematics 6 must precede or accompany.

3 hours of lectures and recitations and 1 three-hour laboratory period, second semester (4 units).

3. Analytical Mechanics.

This course gives a comprehensive survey of both statics and dynamics. It is intended for Juniors who have taken calculus, but Sophomores who are taking calculus at the same time may be admitted by consent of the instructor.

Prerequisite, course 1, with course 2 completed or in progress.

5 hours of lectures and recitations, throughout the year (10 units).

4A. Thermodynamics.

The relations between heat and other forms of energy. Instruction will be by lectures and prescribed reading. Not to be given in 1910-1911.

Prerequisite, courses 1 and 2.

3 hours, first semester.

4B. The Electron Theory.

The last few years have witnessed discoveries which are rapidly leading to a unitary view of the whole subject of electricity, under the name of the "Electron Theory." These discoveries are taken up and interpreted in this course. The lectures will be supplemented by outside reading. Not to be given in 1910-1911.

Prerequisite, courses 1 and 2.

3 hours, second semester.

Spanish

Instructor Moll

1. **Elementary.**

Hill's and Ford's Spanish Grammar. Reading of short and easy stories and plays. Doce Cuentos Escogidos: Alarcón, El Capitán Veneno; Valera, El Pájaro Verde; Galdós, Marianela. Composition and Conversation.

4 hours, throughout the year (8 units).

2. **The Modern Novel and Drama.**

Galdós, Doña Perfecta; Valdes, La Hermana San Sulpicio; Valera, El Comendador Mendoza; Pereda, Pedro Sánchez; Echegaray, El Gran Galeoto. Advanced grammar and composition.

Prerequisite, admission subject 24 or course 1.

3 hours, throughout the year (6 units).

Schedule

Schedule of Lectures and Recitations

The names and numbers of courses correspond with those found under "Departments of Instruction," pages 61 to 104, the added Roman numerals referring to sections of classes.

The figures on either side of the page show the hours at which recitations are held on successive days of the week, 11 standing for 11:20.

L means a laboratory period, which in every case begins at 1 p.m. and ends at 4.

Courses not scheduled will have their hours arranged when the classes are formed.

Chapel exercises are held daily at 11 a.m.

First Semester						Second Semester				
M	T	W	T	F		M	T	W	T	F
8		8		8	Astronomy 1.....					
					Astronomy 2.....					
	10		10		Bible 1 I.....					
	1		1		Bible 1 II.....					
	11		11		Bible 1 III.....					
					Bible 2 I.....	2			1	
					Bible 2 II.....	10				10
					Bible 3.....		9		9	
10				10	Bible 4.....					
		1		1	Bible Elective			1		1
	10		L	9 L	Botany 1.....					
					Botany 2.....		10		L	9 L
10		9	L	10	Chemistry A I.....	10		10	L	10
10		9		10 L	Chemistry A II....	10		10		10 L

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First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
10		10		10	Chemistry 1.....	10		10		10
	L	L			Chemistry 2.....					
					Chemistry 3.....		L	L		
L			L	L	Chemistry 4.....	L			L	L
					Chemistry 5.....					
L			L	L	Chemistry 6.....	L			L	L
					Chemistry 7.....					
L			L	L	Chemistry 8.....	L			L	L
					Drawing 1.....					
					Drawing 2.....					
L			L		Drawing 3.....	L			L	
					Drawing 4.....					
					Drawing 5.....					
					Drawing 6.....					
	10		10	9	Economics 1.....					
					Economics 2.....		10		10	9
2	1		1		Economics 3.....					
					Economics 4.....	2	1		1	
8		8		8	...Education 2.....					
					Education 3.....	8		8		8
	9		9		English 1 I.....		9		9	
	11		11		English 1 II.....		11		11	
		1		1	English 1 III.....			1		1
2			1		English 2 I.....					
10				10	English 2 II.....					
					English 3.....	2			1	
	9	9		9	...English 5.....					
					...English 7.....	9	9		9	
	1			2	...English 8.....					
					English 9.....		1			2

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
					English 11.....	10		10		10
10		10		10	English 12.....					
	10		10	9	English 13.....					
					English 14.....		10		10	
	2	2	2		English 15.....					
					English 16.....		2	2	2	
	2	2	2		English 19.....		2	2	2	
					English 20.....	10		10		10
8	8	8	8	8	French 1	8	8	8	8	8
	11	11	11		French 2		11	11	11	
2	1		1		French 3	2	1		1	
	2	2	2		French 5		2	2	2	
10		10			Geology 1					
					Geology 2	10		10		
		L			Geology 3					
					Geology 4			L		
	9				Geology 5					
	L				Geology 6		9			
						L				
8	8	8	8	8	German 1.....	8	8	8	8	8
	10		10	9	German 2.....		10		10	9
	2	2	2		German 3.....		2	2	2	
2	1		1		German 4.....	2	1		1	
8	8	8	8	8	Greek A.....	8	8	8	8	8
					Greek B.....					
					Greek 1					
					Greek 2					
					Greek 3					
					Greek 4					

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First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
					Greek 7					
					Greek 8					
					Greek 11					
					Greek 12					
	11	11	11		History 1.....		11	11	11	
10		10		10	History 2.....	10		10		10
	10		10	9	History 3.....					
					History 4.....		10		10	9
1		1		1	...History 6.....	1		1		1
8	8	8	8	8	Latin A.....	8	8	8	8	8
10		10		10	Latin 1.....					
					Latin 2.....	10		10		10
	11	11	11		Latin 3.....					
					Latin 4.....		11	11	11	
					Latin 5.....					
					Latin 6.....					
2	1		1		Latin 9.....					
					Latin 15.....	2	1		1	
					Mathematics A	9	9		9	
9	9		9		Mathematics B.....					
	11	11	11		...Mathematics 1					
					Mathematics 3		11	11	11	
	10		10	9	Mathematics 4					
					Mathematics 6		10		10	9
9	9		9		Mathematics 9					
					Mathematics 10	8		8		8
	8	9	8		Philosophy 1.....					
					Philosophy 2.....		8	9	8	
9	9		9		Philosophy 3.....					
	10		10	9	Philosophy 4.....		10		10	9

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
					Philosophy 5.....	9	9		9	
					Phys. Train. 1.....					
					Phys. Train. 2.....					
9			9		Physics A I.....	9			9	
			L						L	
9			9	L	Physics A II.....	9			9	L
9	9		9		Physics 1 I.....	9	9		9	
L						L				
9	9		9	L	Physics 1 II.....	9	9		9	L
	11	11	11		Physics 2.....		11	11	11	
		L					L			
	1		1	10	Physics 3.....		1		1	10
	2		2				2		2	
					Physics 4.....					
9	9	9	9		Spanish 1.....	9	9	9	9	
	11	11	11		Spanish 2.....		11	11	11	
8		8		8	Zoology 1.....	8		8		8
			8		Zoology 1A I.....					
			9		Zoology 1A II.....					
			10		Zoology 1A III.....					
	L	L			Zoology 2.....		L	L		
					Zoology 3.....					
10	L	L		10	Zoology 4.....					
					Zoology 6.....	10	L	L		10
					Zoology 7.....				L	

General Information

GENERAL INFORMATION

Registration and College Credits

Registration. On the appointed registration days at the opening of each semester, each student must obtain a registration card at the Registrar's office. This card, properly filled out, must be filed with the Registrar not later than the first Friday of the semester. Students failing to register before that time will pay a registration fee of two dollars. The tuition fee must be paid or its payment arranged for with the Business Manager at the time of registration. A certificate of moral character is required of each applicant for admission.

Enrollment in Classes. A student desiring to enter any class must present to the instructor a certificate of registration for that class. No one will receive college credit for any course for which he has not duly registered.

Change of Subjects. Students desiring to change from one subject to another after the opening of the semester must present to the classification committee a written petition not later than one month after the beginning of the semester.

Change from one Group to Another. Students desiring to change from one group to another may do so with the approval of the departments concerned and with the permission of the classification committee, ordinarily not later than the beginning of the Junior year.

Amount of Work. Nineteen unit-hours for Freshmen and Sophomores, and seventeen for Juniors and Seniors, constitute the maximum amount of work for which a student is permitted to register. Twelve unit-hours constitute the minimum. A student incurring a condition or failure will be limited to fifteen unit-hours during the semester following.

Marking System. Scholarship grades are indicated by letters, as follows: "A" represents marked excellence; "B," thoroughly satisfactory; "C," fair; "D," just passing; "d" means a condition; "da," a condition to be removed by examination; "db," a condition to be removed by completing unfinished work; "f" is a failure.

Conditions and Failures. A student incurring a failure in any course will be required to re-register for that course before he can receive credit for the subject. A condition incurred in any course becomes a failure unless removed within one year under the direction of the instructor.

Classification. The class in which a student is to be ranked is determined by the following scale of credits, each figure being the minimum for conditioned standing in the class named:

Freshman— $13\frac{1}{2}$ units of accepted high school credits.

Sophomore—26 units (net) of college credit.

Junior—60 college units, all entrance conditions removed.

Senior—94 college units, all entrance conditions removed.

Attendance

The College requires of all students regular attendance at the chapel service and at all the classes to which they belong. A copy of the rules governing attendance may be obtained from the Dean.

Honors

I. CLASS HONORS

First Honors are awarded on commencement day to those members of each of the four classes whose credits for the year's work reach the average of two-thirds A's and one-third B's.

Second Honors are awarded to those whose credits for the year's work reach the average of one-third A's and two-thirds B's.

To be eligible to either of these honors, one must have at the end of the year:

- a. All entrance conditions removed.
- b. No failures or unremoved conditions on the year's record.
- c. At least 24 units of college credit earned during the year.
- d. Rank in the next class.

II, FINAL HONORS

On the same basis as above, Final Honors will be awarded to those members of the graduating class, beginning with 1911, who have won Class Honors each of the four years of their course, or whose average for the four years equals the average required for Class Honors.

Students from other institutions, entering Occidental not later than the beginning of the Junior year, will be eligible to Final Honors, provided, in the judgment of the Committee on Classification, their record for the preceding part of their course equals the standard named above.

III. VALEDICTORY AND SALUTATORY

The rank of Valedictorian is awarded to that member of each graduating class who stands highest in scholarship average for the entire course.

The rank of Salutatorian is awarded to that member of each graduating class who stands second in scholarship average for the entire course.

Students from other institutions entering Occidental later than the beginning of the Junior year are not eligible to these honors.

Oratorical and Debating Contests

Intercollegiate Oratorical Contest. An oratorical contest between the colleges of Southern California is held annually. The preliminary contest at Occidental College is in charge of the students' Oratorical Association. The winner in this contest receives a prize, and represents the College in the Intercollegiate Contest between the University of Southern California, Pomona College and Occidental College. In the last home contest, the first prize was won by Mr. Alfred W. Robertson. The second prize was won by Mr. Harold Pellegrin.

Oratorical Contest of the Prohibition League.

Each year an oratorical contest is held by the students' Prohibition League, which is a branch of the Intercollegiate Prohibition Association. The subjects discussed are connected with the work of temperance reform. In the local contest of 1910, Mr. C. H. Gaskell won the first prize, and Mr. Nathaniel Bercovitz the second prize.

Intercollegiate Debating Contest. An annual debating contest is held each year between representatives of Pomona and Occidental, three men being chosen from each college after a series of preliminary try-outs. The fifth contest in this series was held at Pomona College in December, and was won by the Occidental team, composed of Messrs. Dodson, '10, W. Thomson, '10, and Pellegrin, '10.

The Southern California Peace Society. This was the first year in which an oratorical contest was held under the auspices of the Southern California Peace Society. The aim of the society is to bring about international disarmament. These college contests are for the purpose of interesting college students in the movement. The local contest is under direct charge of the student Oratorical Association, and the winner represents the College in the Intercollegiate Peace Oratorical Contest of Southern California. At the home contest, occurring May 7, 1910, Mr. Harold Pellegrin took first prize and Mr. Victor Collins second.

High School Certificate

Graduates of Occidental College may obtain the high school teacher's certificate for California on the same conditions as graduates of the State University. Full details regarding these conditions will be furnished on application.

The Friday Assembly

A joint assembly of Occidental College and Academy is held in the chapel every Friday at eleven o'clock. At this assembly vital topics are discussed by famous men from all parts of the world. No lecture course in the country affords a richer or more varied program than that offered to Occidental students every week in the year, free of charge, from their own chapel platform. Its value as part of a college course can hardly be estimated.

Physical Training and Athletics

A medical and physical examination is required of all students entering the College. Abnormal tendencies are noted and corrective exercises prescribed. The College Gymnasium Handbook gives valuable information on personal hygiene. An anthropometric chart shows the student how much he is below the normal in strength and muscular development, and records the improvement made during a year's work. Students who are organically weak are not allowed to take part in heavy gym-

nastic or athletic competition. The physical condition of those training for the various athletic games is under the care of the department, and medical examination may be required at the discretion of the director. Those who desire to substitute practice on one of the Varsity squads for the general work in physical training may do so on recommendation of the Instructor in Athletics and must fill out a regular card. No student of whom physical training is required will be excused from the classes except on request of a physician. The same rules regarding attendance are observed as in other departments.

Physical training has its part in the general plan of college work and is subservient to the larger purpose of the institution. No effort is spared to direct the work of the individual in such a way as to harmonize his physical development with other student activities. Quoting from another, "The department desires to use the game for the man and not the man for the game."

The gymnasium is equipped with such apparatus as is needed for systematic body building. Near by are lockers, with ample dressing rooms, and shower baths supplied with both hot and cold water. A large enclosed court is used by the young women for games, such as basket ball, volley ball and hand ball. Adjoining this court is the young women's dressing and locker rooms, in which are five showers supplied with hot and cold water. Three well-kept tennis courts are open to all the students. The athletic field contains a standard quarter-mile track, with football, baseball and basketball fields. The

training house is convenient to the field and contains a good supply of lockers with combination locks, dressing rooms and baths. The office of the Instructor in Athletics is in the training house.

Athletics as a phase of the general college life are under the care of the Associated Students, acting in co-operation with the Faculty athletic committee. Athletics as affecting the health of the individual are controlled by the Physical Director.

Regulations Governing Social Life

The College provides places of residence for the students by means of a system of registered lodgings and boarding places. All students must room in places approved by the Faculty, changing from one place to another only with permission. Students are required to keep reasonable hours and to conduct themselves with propriety at all times. A copy of the rules governing the social life of the College may be obtained from the Dean.

Fees and Expenses

Tuition. The fee for tuition in the College is \$45.00 a semester, payable in advance. Five per cent will be added to all College bills of the first semester not paid by November 1st, and to those of the second semester not paid by March 1st. No refund will be made to students leaving College except when compelled to do so on account of sickness.

Special Fees. The graduation fee is \$5.00. Fees for the laboratory courses in science, payable in advance, are as follows:

	Laboratory Fee	Breakage Deposit
Botany 1.....	\$3.00	\$...
Botany 2.....	3.00	...
Chemistry A.....	5.00	5.00
Chemistry 2.....	5.00	5.00
Chemistry 3	5.00	5.00
Chemistry 4A.....	5.00	5.00
Chemistry 4B.....	5.00	5.00
Chemistry 6	7.50	5.00
Chemistry 8	5.00	5.00
Zoology 2	3.00	...
Zoology 3	2.50	...
Zoology 5	5.00	...
Zoology 6	5.00	...

The laboratory charge in Physics is \$3.00 a semester for each laboratory period of three hours. In Geology a breakage account is kept with each student, to be paid at the end of the semester.

No student will be admitted to the chemical laboratory without a receipt from the Business Manager showing that the breakage deposit has been paid. The balance remaining at the end of the semester will be returned.

Living Expenses. A system of registered lodging and boarding places provides places of residence for the students at a cost varying from eighteen to twenty-five dollars per month. New students will be provided on their arrival with complete lists of approved rooms and boarding places

The necessary expenses of the student range from \$275 to \$400.

Students who desire to earn their expenses while attending the College should register with the Employment Bureau conducted by the Christian Associations. Opportunities for self support among the students are somewhat limited. The number of students who earn their entire expenses is comparatively small.

Scholarships

The College has a limited number of scholarships available for the relief of deserving students who are unable to pay tuition. In some cases the beneficiary is named by the donor, in others by the President or Board of Trustees. Every candidate for a scholarship must have his application indorsed by some person of recognized standing in his home neighborhood. Any one receiving such aid will be expected to maintain a creditable standing in his classes and to show by his conduct that the assistance has been worthily bestowed. Address all communications regarding these scholarships to the President.

THE HORACE CLELAND SCHOLARSHIP

In addition to those named above, the Horace Cleland Scholarship, recently established by the Alumni Association, is awarded, for the Sophomore year only, to that member of each class who seems best entitled to it on the general basis of need and merit.

THE CECIL RHODES SCHOLARSHIPS

Competition for these also is open to students of Occidental. Mr. Clarence Arthur Spaulding, A.B., Class of 1907, passed the qualifying examinations in January, 1908, and is now at Oxford as Rhodes Scholar for Arizona.

STUDENT LOAN FUND

There is a loan fund from which a worthy student in unusual need may borrow at four per cent interest a sufficient amount to meet a part or all of his tuition, giving his personal note as security. Such loans can be made only in case of real need and through personal conference with the President. Each applicant must furnish satisfactory references and will be expected to maintain a proper standard of scholarship and conduct.

Student Organizations

The Associated Students. The purpose of this organization is to control all student enterprises. All Occidental students are eligible to membership. At its organization, the Associated Students absorbed the Athletic Association, the Oratorical Association, and the Occidental Publishing Company. These enterprises are now under the direct control of a general manager, and under the general control of an Executive Committee, which is composed of the officers of the Association and of one representative for each of the following interests: Ora-

tory, Student Publications, the Alumni, and the Faculty.

All expenditures must be authorized by the Executive Committee; and every month a full report of all receipts and expenditures, after being duly audited, is published in *The Occidental*.

Christian Associations. The Young Men's and the Young Women's Christian Associations are both represented by strong organizations, being supported by a large majority of the students. The weekly meetings of the Associations are largely attended. Classes for systematic Bible study meet regularly.

Interest in missions is very strong, the Student Volunteer movement being well represented in both Associations.

Each year the Y. M. C. A. sends a delegation to the State conference at Carmel-by-the-Sea, and the Y. W. C. A. a delegation to Capitola.

An important feature of the work of the Associations is the Student Employment Bureau, which is conducted for the benefit of those desiring to earn their expenses during the college year. An Information Bureau is also conducted by the Association for the assistance of new students at the opening of the college year.

Literary Societies. The students of the College support three active literary societies: the Stevenson and the Lowell, composed of young men, and the Laurean Literary Society, composed of young women. These societies hold weekly meetings for debating and other literary work.

Glee Club. The Glee Club continues to maintain its place among the successful organizations of the College. Besides furnishing the music at various services and exercises of the College, the club regularly makes a vacation trip to a number of the surrounding towns. It contributes in no small degree to the social life of its members and to the musical interests of the College.

Membership is based upon ability displayed in competitive trials at the opening of the school year.

Student Publications

The Occidental, the College newspaper, appears each week of the College year. It is edited and managed by students of the College. An annual, La Encina, is published in May by the Junior class. A handbook of information is issued at the beginning of each year by the Y. M. C. A.

Occidental Academy

Occidental Academy, with a faculty of its own, occupies a commodious building on the west side of the campus, admirably adapted to its needs. Its equipment, supplemented by that of the College, is especially creditable. As regards, curriculum and teaching force, it ranks with the best. Tuition, \$75 a year. For separate catalogue, with full information, address

Charles B. Moore, M.A., Principal,
Occidental Academy, Los Angeles, Cal.

AMENDED ARTICLES OF INCORPORATION
OF THE
OCCIDENTAL COLLEGE OF LOS ANGELES

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the Occidental College of Los Angeles is a corporation duly incorporated, organized and existing under and by virtue of the laws of the State of California, under the provisions relating to the incorporation of colleges and seminaries of learning, and having its principal place of business, and maintaining its college, in the County of Los Angeles, State of California, and

WHEREAS, two-thirds of the members of said corporation at a meeting of said members duly called and held on the 7th day of April, 1910, did, by resolution duly adopted, authorize the Articles of Incorporation of said corporation to be amended, and by their written assent, amended such Articles of Incorporation.

NOW, THEREFORE, the Articles of Incorporation of said corporation as so amended, are hereby certified by the subscribers hereto to be as follows:

ARTICLE I.

The undersigned, who are each and all citizens of the United States, and a majority of whom are

residents of the State of California, having heretofore been voluntarily associated together under and by virtue of the original Articles of Incorporation of said corporation, and various amendments thereto, do hereby continue such voluntary association for the purpose of maintaining such incorporation under said laws, and further certify as follows:

ARTICLE II.

That the name of said corporation shall be the Occidental College of Los Angeles.

ARTICLE III.

The purpose for which said corporation is formed are: To receive and to hold by purchase, gift, devise, bequest, or grant, real and personal property; to erect buildings, establish and maintain a college for educational purposes with all power necessary to maintain and conduct a non-sectarian Christian college of liberal arts and natural sciences; to grant such literary honors as are usually granted by any college of learning in the United States, and in testimony thereof, to give suitable diplomas under its seal and the signatures of such officers of the college as shall be deemed expedient.

The teaching and management of the college shall always be in accord with that of the evangelical Christian churches concerning the Fatherhood and sovereignty of God, the Deity and atonement of Jesus Christ, the person and work of the Holy Spirit, and the Bible as an authoritative revelation from God, and other fundamental doctrines of Christianity.

ARTICLE IV.

The place where the said college is to be conducted is in the County of Los Angeles, State of California, and its principal business is to be transacted in one of the buildings of the college maintained on its college site in said county.

ARTICLE V.

The period for which said corporation is to exist is fifty years from and after the date of its incorporation, and for such further time as may be allowed by law.

ARTICLE VI.

The management of the college shall be non-sectarian, and shall be vested in a self-perpetuating board of twenty evangelical Christian church members.

ARTICLE VII.

These Articles of Incorporation, as hereby amended, shall not be further changed or amended except with the consent, in writing, of two-thirds of the members of the Board of Trustees of said corporation.

FORM OF BEQUEST

Those intending to devise property to Occidental College are requested to use the following form: "I hereby give, devise and bequeath unto the Occidental College of Los Angeles, State of California, the sum of.....Dollars."

For property other than money the form should be correspondingly varied.

Degrees Conferred in 1909

Doctor of Divinity

Rev. Arthur S. Phelps

Doctor of Laws

Professor William S. Stevenson

Master of Arts

Professor Mary C. Cunningham

Bachelor of Arts

Harriet Louise Annin

Clara Serena Bartram

Paul Garthwright Chapman

George Francis Conrad

Anna Beulah Davis

Paul Clinton Elliott

Caroline Eleanor Flanders

Earl Douglas Hillis

Christine Vive Hoogestraat

William Logan Holley

Maude Eleanor Knudson, *Salutatorian*

Winifred La Tourette

Barbara Ella Lee

Etta Elizabeth Lee

Leona Beatrice Lodwick

Hazel Irene Longacre

Edna Frances Lowe
Hannah Lois MacKalip
Clarence Eugene Morrison
Susie Ida Norton
Jessie Elizabeth Patterson
Arthur Gordon Paul
Leah Annette Phillips
Marie Luella Rice
William Everett Roberts
Janet Smart
Eloise Strobridge
Harry Bryson Thomas
Henry Lyon Thomson
Earle Vonard Weller
Grace Elinor Whitcomb

Bachelor of Science

John Cherry Johnson
Henry Procter, Jr.
Herbert Palmer Rankin, *Valedictorian*
Frank Neill Rush
Samuel Pierce Thomas

Officers of the Alumni Association

President.....J. Percival Hagerman
Vice-President.....Vera H. Brooke
Secretary.....Bertha Boal
Treasurer.....George F. Conrad

Executive Committee of the Associated Students

President.....	Fred C. Thomson
Vice-President.....	Ray Bond
Secretary	Alva Gardner
Manager	Watson Burt
Faculty Representative.....	Dr. Ward
Oratorical Representative.....	Harold Pellegrin
Athletic Representative.....	Ernest Wieman
Editor Occidental, 1st Semester, Williel Thomson, Jr.	
Editor Occidental, 2nd Semester.....	F. W. Lawson
Alumni Representative.....	Edward Dwight Chapin

Alumni

1893

Maude Bell (Mrs. F. R. Baer), Pasadena, Cal.
Martha Thompson (Mrs. Thos. Coyle),
Quogue, N. Y.

1894

Donald K. Cameron, B.L., Civil Engineer,
Baltimore, Md.
H. Percy Dilworth, B.L., Rancher, Hemet, Cal.
Floy K. Roberts (Mrs. A. N. Jung), A.B.
809 Green St., Los Angeles, Cal.

1895

Alphonso E. Bell, A.B., Rancher,
Santa Fe Springs, Cal.
Rev. Donald M. Brookman, A.B., Minister,
Albany, N. Y.
Leslie E. Lynn, A.B., Planter,
San Carlos, Costa Rica.
William E. Parker, A.B., Attorney,
6038 Monte Vista St., Los Angeles, Cal.

1896

George Byram, B.S., Ranches, Glendale, Cal.
Walter V. E. Thompson, B.S., Real Estate Agent,
2515 Stanford Ave., Los Angeles, Cal.

1897

Helen Harris, B.S., Teacher, Chicago, Ill.
Pedro Recio, A.B., Teacher, Chihuahua, Mex.

1898

Rev. Edward H. Miller, A.B., Missionary,
Seoul, Korea

1900

Amy Pressley Gordon, B.L.,
4811 Pasadena Ave., Los Angeles, Cal.

Grace Marie Lowder, A.B.,
3026 Melvin St., Los Angeles, Cal.

Alfred Solomon, A.B., Professor,
University California, Berkeley, Cal.

1902

Rev. Dwight C. Chapin, A.B., Missionary,
5320 Pasadena Ave., Los Angeles, Cal.

Isabel Crowell, B.L., M.D., Physician,
Alhambra, Cal.

Harry C. Dane, B.S., Accountant,
1959 W. Washington St., Los Angeles, Cal.

Laura Mosher (Mrs. Silas Johnson), B.L.,
Missionary, Batanza, West Africa

Mabel R. Patty (Mrs. Thos. Ogden), B.L.,
Redlands, Cal.

Dorothea E. Lewis (Mrs. Dwight Potter), A.B.,
Missionary, Sidon, Syria

1903

*Rev. T. Horace Cleland, A.B.,

Helen Howe, B.S., Teacher, Long Beach, Cal.

Fred H. Scauer, B.L., Attorney, Santa Barbara, Cal.

Edward H. Solomon, A.B., Teacher, Azusa, Cal.

*Deceased.

1904

- Arthur W. Buell, B.S., M.D., Physician,
1273 E. 1st St., Long Beach, Cal.
- Loua L. Gorham, A.B., Teacher, Santa Barbara, Cal.
- Rev. Augustus Roy Thompson, B.S., Minister,
Dixon, Cal.

1905

- Percy Bailey Goodell, B.S., Teacher,
797 E. Orange Grove Ave., Pasadena, Cal.
- Daniel Stewart Hammack, A.B., Attorney,
144 E. Ave. 55, Los Angeles, Cal.
- Margaret S. Herskovits, B.L., Teacher,
926 Blaine St., Los Angeles, Cal.
- John Robinson Jeffers, A.B., Student, U. S. C. Med.
School, 1623 Shatto St., Los Angeles, Cal.
- Bertha Evelyn James, B.L., Teacher,
757 Earlham St., Pasadena, Cal.
- Irwin William McKee, A.B., Surveyor,
5430 Marmion Way, Los Angeles, Cal.
- Eleanor Estelle McClung (Mrs. Arthur W. Buell),
B.L., 1273 E. 1st St., Long Beach, Cal.
- Clara Florence Meader, A.B., Teacher, Ventura, Cal.
- Lelia Wiatt Quinby, B.L., Mission Teacher,
Barranquilla, Colombia
- Julia Katrina Winn (Mrs. Walter C. Erdman), B.L.,
Missionary, Taiku, Korea
- Rev. George Hinsdale Winn, A.B., Missionary,
Taiku, Korea

1906

Edwin Hodge Crabtree, A.B., Teacher,
San Diego, Cal.

Edna D. Cumberland (Mrs. W. E. Roberts), B.L.,
Omaha, Nebraska

Genevieve M. Cumberland, B.L., Teacher,
131 W. Ave. 51, Los Angeles, Cal.

Ernest John Cummings, A.B., Instructor,
Stanford University, Cal.

Rebecca Pearl Ellis, B.L., Teacher, Whittier, Cal.

Margaret Gordon Grant, A.B.,
5542 Pasadena Ave., Los Angeles, Cal.

John Percival Hagerman, B.L., Y.M.C.A. Secretary,
Los Angeles, Cal.

Philip Benjamin Kennedy, B.L., Beloit, Wis.

Sidney McKee, B.L., Theological Student,
Berlin, Germany

*James McMichael, A.B.

Rev. Carl Wallace Petty, B.L., Minister,
4419 Pasadena Ave., Los Angeles, Cal.

Edith Catherine Powell (Mrs. Harry Raney), B.L.,
Azusa, Cal.

George Nye Steiger, A.B., Teacher,
Shanghai, China

Mattie Ethelyn Wakefield, B.S.,
Pasadena Library, 287 Lincoln Ave., Pasadena, Cal.

Frances Grace Webster, A.B., Teacher,
E. Ave. 57, Los Angeles, Cal.

Clyde Lynn Earl Wolfe, B.S., Student, Harvard
University, Cambridge, Mass.

*Deceased.

1907

- Frank Peer Beal, B.L., Y.M.C.A. Secretary,
Culver, Ind.
- Rev. John Wesley Beard, B.L., Minister,
Omaha, Neb.
- Robert Henry Blee, B.S., Merchant, Santa Ana, Cal.
- Vera Howard Brooke, A.B., Teacher,
138 E. Ave. 58, Los Angeles, Cal.
- Robert Glass Cleland, A.B., Student, Princeton
University, 137 E. Ave. 49, Los Angeles, Cal.
- Charles Herbert Cleveland, B.L., Undertaker,
Long Beach, Cal.
- Howard Clever, B.S., Rancher, Fullerton, Cal.
- Mamie Katherine Daniel, B.L.,
5326 Monte Vista St., Los Angeles, Cal.
- Harry Sloan Dukes, B.L., Teacher,
2422 E. 3rd St., Los Angeles, Cal.
- Bessie Louise Field, B.L., Teacher, Glendale, Cal.
- Theodore Fulton, B.L., Teacher,
2272 W. 29th St., Los Angeles, Cal.
- Frances Wallace Gordon, B.L.,
4811 Pasadena Ave., Los Angeles, Cal.
- Marie Alden Hopkins, A.B., Teacher, Fullerton, Cal.
- Elizabeth Anne Horton, B.L., Teacher,
1025 San Pasqual Ave., Pasadena, Cal.
- Abigail Lucinda Lane, B.L., Elkins, N. M.
- Laura Matilda McGaugh, B.L., Rivera, Cal.
- Anna Montella McKee, A.B., Missionary,
Taiku, Korea

- Samuel Clark McKee, A.B., Theological Student,
Auburn, N. Y.
- Fairy Abiah Means (Mrs. Robert Blee),
Santa Ana, Cal.
- Lilian Maria Merrill (Mrs. S. Y. Van Meter), B.L.,
140 E. Ave. 53, Los Angeles, Cal.
- Ysabel Mordy, B.L., Teacher, Albuquerque, N. M.
- Maud Imogene Muratt, A.B., Teacher,
845 E. 29th St., Los Angeles, Cal.
- Bessie May Pope, A.B.,
2913 Downey Ave., Los Angeles, Cal.
- Harriet Alice Snyder, B.L., Teacher,
817 E. Walnut St., Pasadena, Cal.
- Clarence Arthur Spaulding, B.L., Student,
Oxford, England

1908

- Ray William Bachtell, B.L., Theological Student,
San Anselmo, Cal.
- John Clement Berry, A.B., C. M. Staub Shoe Co.,
5101 Pasadena Ave., Los Angeles, Cal.
- Bertha Boal, B.L., Teacher,
127 W. Ave. 52, Los Angeles, Cal.
- Niño L. Brown, B.L., Student, University
California, Berkeley, Cal.
- Myrtle Minnie Bubach, B.L., Student, University
California, 555 Galena St., Pasadena, Cal.
- Bess Marie Buck, A.B., Teacher,
2634 Budlong Ave., Los Angeles, Cal.
- Watson Beebe Burt, A.B., Contractor,
South Pasadena, Cal.

Rev. Edward Dwight Chapin, B. L., Minister,
430 W. 52nd Place, Los Angeles, Cal.

Theodore S. Chapin, B.S., Professor, University of
Arizona, Tucson, Ariz.

Walter Raymond Crane, B.S., Student, University
Cal. Med. Col., 415 W. Ave. 50, Los Angeles, Cal.

Katherine Maud Darling, A.B., Teacher,
265 S. Euclid Ave., Pasadena, Cal.

Mae Alice Darling, A.B.,
265 S. Euclid Ave., Pasadena, Cal.

Carey Demaree, B.L., Rancher, Oroshi, Cal.

Harriet Hardin Gage, B.L., Teacher, Urumia, Persia

Alice Margaret Gall, A.B., Teacher, Santa Ana, Cal.

James Hazen Gordon, B.S., U. S. Weather Bureau,
Fresno, Cal.

Annie Louise Harris, B.L., Teacher, Ione, Cal.

William Otto Hoogestraat, B.S., Teacher,
Tekoa, Wash.

Charles Wolfe List, B.L., Inv. Broker,
155 Pasadena Ave., So. Pasadena, Cal.

Marla Faye McKean, B.L., Teacher,
Cedarville, Cal.

David Bruce Merrill, B.L., Broker,
Mt. Washington, Los Angeles, Cal.

Janet Florence Naismith, B.L., Teacher,
1110 Fedora St., Los Angeles, Cal.

Mary Frances Pierce, B.L., Teacher, Pomona, Cal.

Harry Blackburn Raney, B.L., Bank Cashier,
Azusa, Cal.

- James Merle Smith, B.L., Teacher, Sherman, Cal.
Arthur Logan Spring, B.S., Electrician,
308 W. Ave. 50, Los Angeles, Cal.
Mary Emma Thomas, A.B., Teacher,
Stephenson Ave., Pasadena, Cal.
Pearl Wiggins, B.S., Teacher,
2515 Michigan Ave., Los Angeles, Cal.

1909

- Harriet Louise Annin, B.A.,
344 W. Ave. 53, Los Angeles, Cal.
Clara Serena Bartram, B.A.,
317 W. Ave. 50, Los Angeles, Cal.
Paul Garthwright Chapman, B.A., Student,
University California, Berkeley, Cal.
George Francis Conrad, B.A., Teacher,
Long Beach, Cal.
Anna Beulah Davis, B.A. El Modena, Cal.
Paul Clinton Elliott, B.A., Rancher, Glendora, Cal.
Caroline Eleanor Flanders, B.A.,
259 N. Union Ave., Los Angeles, Cal.
Earl Douglas Hillis, B.A. Riverside, Cal.
Christine Vive Hoogestraat, B.A., Arcadia, Iowa
William Logan Holley, B.A., Settlement Worker,
588 Mateo St., Los Angeles, Cal.
John Cherry Johnson, B.S., Bank Clerk,
4957 Pasadena Ave., Los Angeles, Cal.
Maude Eleanor Knudson, B.A., Graduate Student,
University of California, Berkeley, Cal.
Winifred La Tourette, B.A., Pasadena, Cal.

- Barbara Ella Lee, B.A., Teacher, Los Angeles, Cal.
Etta Lee, B.A., Teacher,
Lehaina, Hawaiian Islands
- Leona Lodwick, B.A., Teacher, Hollywood, Cal.
- Hazel Irene Longacre, B.A., Oakland, Cal.
- Edna Frances Lowe, B.A., Teacher,
5619 Monte Vista St., Los Angeles, Cal.
- Hannah Lois MacKalip, B.A., Student, University
California, 210 W. Ave. 52, Los Angeles, Cal.
- Clarence Eugene Morrison, B.A.,
5524 Hillcrest Drive, Los Angeles, Cal.
- Susie Ida Norton, B.A., Student, University
California, Monrovia, Cal.
- Jessie Elizabeth Patterson, B.A., Stenographer,
Ave. 53 and Marmion Way, Los Angeles, Cal.
- Arthur Gordon Paul, B.A., Asst. to President,
Occidental College,
1705 Brooklyn Ave., Los Angeles, Cal.
- Leah Annette Phillips, B.A., Teacher,
5634 Pasadena Ave., Los Angeles, Cal.
- Henry Proctor, Jr., B.S., Rancher, Santa Paula, Cal.
- Herbert Palmer Rankin, B.S., Merchant,
Santa Ana, Cal.
- Marie Luella Rice, B.A.,
618 W. Ave. 50, Los Angeles, Cal.
- William Everett Roberts, B.A., Student, Omaha
Theological Seminary, Omaha, Neb.
- Frank Neill Rush, B.S., Pac. States Tel. Inspector,
South Pasadena, Cal.

Janet Eliza Smart, B.A., Teacher, Santa Ana, Cal.

Eloise Strobbridge, B.A.,

18th and Bonnie Brae Sts., Los Angeles, Cal.

Harry Bryson Thomas, B.A., Los Angeles, Cal.

Samuel Pierce Thomas, B.S., Bank Clerk,

Los Angeles, Cal.

Henry Lyon Thomas, B.A., Rancher,

Grants' Pass, Ore.

Earle Vonard Weller, B.A., Printer,

327 W. Ave. 53, Los Angeles, Cal.

Grace Elinor Whitcomb, B.A.,

5960 Hayes Ave., Los Angeles, Cal.

REGISTER OF STUDENTS

SENIORS

Bailey, Nellie May.....	Rialto
Bercovitz, Nathaniel.....	Los Angeles
Blee, Mary Edna.....	Santa Ana
Bond, Lillard Ray.....	Santa Paula
Byers, Bertha Viola.....	Pasadena
Christian, Anna Brockenbraugh.....	Los Angeles
Crawford, Julia Etta.....	Tustin
Cumberland, Esther Clarice.....	Los Angeles
Davenport, Blanche Lunn.....	Tropico
Dodson, Philip Fortunatus.....	South Pasadena
Fisher, Muriel Douglas.....	South Pasadena
Foote, Harriet Ruth.....	Los Angeles
Gardner, Alva Lucia.....	South Pasadena
Heath, Sara.....	Baldwin Park
Hillery, Horace Everett.....	Fairbanks, Alaska
Jepson, Gail Dubois.....	Pasadena
Leighton, Edna May.....	Long Beach
Lowe, Mary Elizabeth.....	Los Angeles
MacDougal, Jean.....	Monrovia
McFarland, Arthur Woodward..	Falk's Store, Idaho
McLaughlin, Falley Cleveland.....	Los Angeles
Mee, Charles Putnam.....	Los Angeles
Pellegrin, Harold Francis.....	Anaheim
Rice, Lulu Byrd.....	Los Angeles
Roan, Donna E.....	Pasadena
Rowley, Grace May.....	Santa Ana

Saviers, Olive Irene.....	Oxnard
Snively, Ruby Bernice.....	Oxnard
Thomson, Fred Clifton.....	Los Angeles
Thomson, Williel, Jr.....	Los Angeles
Trowbridge, Verona Merry.....	Los Angeles
Young, Arthur Nichols.....	Los Angeles

JUNIORS

Annin, Roswell Howard.....	Los Angeles
Baer, George Van Dusen.....	Pasadena
Bird, Owen Robert.....	Pasadena
Bradford, Edna Violet.....	Pasadena
Chamberlin, Edna Louise.....	Los Angeles
Chase, Rosalind Joleva.....	Los Angeles
Collins, Arthur Eugene.....	Santa Ana
Crinklaw, Lou Elizabeth.....	Los Angeles
Dickerson, John Frank.....	Long Beach
Douglas, Clifford Alden.....	Los Angeles
Edwards, Mary Bartee.....	Los Angeles
Faries, David Reed.....	Los Angeles
Gobar, George Hutchinson.....	Fullerton
Harvey, Ada Jane.....	Santa Fe, N. M.
Herriott, Anna Grace.....	Oakland
Hopkins, Harold.....	Fullerton
Huscroft, Rowena Margaret.....	Los Angeles
Kreider, Boyd B.....	Davis
McCoy, Grace.....	Beaumont
McGlashan, Margaret Emma.....	San Pedro
McKee, Willa Josephine.....	Los Angeles
McKenney, Lysle Rothwell.....	San Diego
Nelson, James Franklin.....	Anaheim
Overton, Eva M.....	Los Angeles

Patterson, Robert Covert.....	Los Angeles
Reeve, William Archie.....	Los Angeles
Reiner, Mary Lydia.....	Santa Maria
Riggins, Aileen.....	Los Angeles
Robertson, Alfred Worcester.....	Santa Barbara
White, Harold John.....	Pasadena
Wimmer, John Davidson.....	Minden, Neb.
Yeary, Malcolm.....	Los Angeles

SOPHOMORES

Ainslee, Charles Albert.....	Oxnard
Alexander, Anna Theresa.....	Riverside
Atkinson, May.....	Azusa
Baker, Alice.....	Pasadena
Barkelaw, Ethel Ree.....	Los Angeles
Barnard, Walter Everett.....	Worcester, Mass.
Bishop, Edwin Abbey.....	Fullerton
Blount, Herbert Turner.....	Los Angeles
Boyd, Leslie Logue.....	Paris, Idaho
Brack, Georgia McKenzie.....	Los Angeles
Brandt, Robert Percy.....	Gualala
Cave, Mabel Elizabeth.....	Redlands
Cotey, Hazel May.....	Los Angeles
Creighton, Roy Lamont.....	Phoenix, Ariz.
Cumberland, William Wilson.....	Los Angeles
Deakins, Ray Robert.....	Colton
Donaldson, Charlotte Victoria.....	Los Angeles
Faulkner, Jessie Katherine.....	Los Angeles
Fifield, Helen Faye.....	Los Angeles
Fountain, Rose Grover.....	Los Angeles
Fuller, Charles Morris.....	Los Angeles
Gardner, Bessie Margery.....	South Pasadena

Grainger, Kyle Zenas.....	Los Angeles
Haines, Thomas Lloyd.....	Chicago, Ill.
Hayslip, Rebecca Snedaker.....	Los Angeles
Hogsett, Irma Marion.....	Redlands
Hollister, Warner.....	Pasadena
Hunt, James Raymond.....	Los Angeles
Johnson, Fred McPherson.....	Los Angeles
Kellogg, Archibald.....	Los Angeles
Key, Sarah Elizabeth.....	Fullerton
Killips, Fay Lillian.....	Los Angeles
Knapp, Dwight Eugene.....	Los Angeles
Landreth, Harold Brooks.....	Pasadena
Lawson, Francis William.....	Alhambra
Lockwood, Herbert H.....	Pasadena
McClung, Katherine Wilma.....	Los Angeles
McGee, Robert.....	Santa Ana
McPeak, Daniel.....	Los Angeles
Montgomery, George Millage.....	Alhambra
Noyes, Mary.....	Los Angeles
Osmond, Edith Griffith.....	Los Angeles
Peterson, Anna Mary.....	Selma
Pettit, Carolyn Walton.....	Fowler
Petty, Alonzo Ray.....	Los Angeles
Pleukharp, James.....	Los Angeles
Post, Esther Annette.....	Fowler
Raab, Theodora.....	South Pasadena
Rogerson, Georgia Kilbourne.....	Redlands
Schauer, Benjamin Rey.....	Santa Barbara
Schoonover, Warren R.....	Los Angeles
Scott, Lulu Loraine.....	Phoenix, Ariz.
Simmons, Francis William.....	Waltham, Mass.
Smart, James Patterson.....	Santa Ana
Smith, Winnifred Ruth.....	Los Angeles

Stanley, Bertha Elvira.....	Tonopah, Nevada
Stone, George Eathl.....	South Pasadena
Story, Mary.....	Rivera
Thomas, Frank Lynn.....	Los Angeles
Trott, Muriel Henrietta.....	South Pasadena
Truesdell, Alice Marion.....	Redlands
Tucker, Celia Elliott.....	Alhambra
Tuller, Anna Louise	Pomona
Wendling, Lillie Ethel.....	South Pasadena
Zinn, Edgar George.....	Riverside

FRESHMEN

Alber, Elsie.....	Hollywood
Adams, Frances Gurley.....	Los Angeles
Allen, Mary Harriet.....	Los Angeles
Andrews, Harriet H.....	Santa Ana
Angus, Howard Weldon.....	Los Angeles
Barnhill, William James.....	Colton
Bartlett, Eloise.....	Los Angeles
Bender, Willard Tilden.....	Santa Barbara
Blee, James Benton.....	Santa Ana
Blount, George Winfield.....	Los Angeles
Bradbeer, Chester Boal.....	Los Angeles
Brier, Edward Blake.....	Los Angeles
Brier, William Wallace.....	Los Angeles
Buck, Bertha May.....	Los Angeles
Bucklin, Alvin Lumsden.....	Los Angeles
Burnight, Lillian Alice.....	Redlands
Cassel, Olive Lillian.....	Pasadena
Clement, Vesta May.....	Redlands
Collins, Victor Ford.....	South Pasadena
Crebs, Lorene Powell.....	Carmi, Illinois
Culp, Dorothy.....	Escondido

Culp, William.....	Escondido
Curran, Luella.....	Pasadena
Daniel, Margaret Lantz.....	Los Angeles
Daniel, Suzanne Margaret.....	Los Angeles
Darrow, Leon Elbert.....	Los Angeles
Davis, Dorothea.....	Los Angeles
De Vana, Eula Gertrude.....	Riverside
Dill, David Bruce.....	Hemet
Douglass, Frank Malcom.....	Hollywood
Dubois, Cecil Lester.....	Santa Ana
Ewart, Inez Florence.....	Los Angeles
Freeman, Stella.....	South Pasadena
Gaskell, Christopher Harold	Alpine
Gillies, Araminta Mary.....	South Pasadena
Gird, Dorothy Madge.....	Los Angeles
Gobar, Franklin Harold.....	Fullerton
Gordy, Mabel Catherine.....	Pasadena
Gould, Theodore.....	Glendale
Hamilton, Bessie Edna.....	Los Angeles
Hayslip, Ralph Stewart	Los Angeles
Hege, Helen.....	Emporia, Kans.
Henderson, Harry Buck.....	Cheyenne, Wyo.
Henry, William Mellors.....	Los Angeles
Holmes, William Mowry.....	Los Angeles
Holsinger, Gladys Mary.....	Pasadena
Hopkins, Albert Gould.....	Pasadena
Horton, Norval Townsend.....	Pasadena
Hutchinson, Edith May.....	Los Angeles
Ireland, Edith Marguerite.....	Los Angeles
Leffingwell, Mary Lois.....	Los Angeles
Lewis, Charles Henry.....	Fowler
Lockwood, Marie Elizabeth.....	Pasadena
Logan, Edward.....	Los Angeles

Maile, Robert Sharell.....	Los Angeles
McBride, Bernice.....	Santa Ana
McConnell, William Orr.....	Los Angeles
McCoy, Horace Hoagland.....	Beaumont
McDuff, Esther.....	Long Beach
McKelvey, Leland Henry.....	Los Angeles
McNair, James Birtley.....	Glendale
Merrill, Marguerite.....	Los Angeles
Merriman, Mary Augusta.....	Santa Barbara
Moore, Helen Annie.....	Los Angeles
Morris, Frank Galemus.....	Covina
Morrison, Bessie Belle.....	Los Angeles
Myers, Neva Marguerite.....	Los Angeles
Nelson, Nora Allen.....	Los Angeles
Osborn, Everett Lawrence.....	Los Angeles
Palmer, Florence Conant.....	Los Angeles
Precival, William Bush.....	Los Angeles
Peterson, Walter Edward.....	Santa Barbara
Powell, Lovina Adele.....	Pasadena
Pratt, Jessie Barnum.....	Los Angeles
Prior, Jack W.....	Los Angeles
Randall, Margaret.....	Los Angeles
Richardson, Elmer Clark.....	Los Angeles
Roan, Everett Hale.....	Pasadena
Russell, Grace Violet.....	Los Angeles
Santikian, Cynig.....	Los Angeles
Seay, Wellford.....	South Pasadena
Sheppard, James Glasgow.....	Santa Barbara
Smart, William Anderson.....	Santa Ana
Stanger, Francis Merriman.....	Hermon
Steele, Rose.....	Pomona
Stevens, John Egbert.....	Modesto

Sweeley, Frank Merriman.....	Pasadena
Sylvanus, Ethel Bell.....	Colton
Thacker, Edna Miriam.....	Los Angeles
Thacker, Emma Beryl.....	Los Angeles
Thorndike, William Sharp.....	Pasadena
Tidball, Edith.....	Santa Ana
Trask, George Harlan.....	Los Angeles
Visel, Stanley A.....	Santa Ana
Wadsworth, Mildred.....	South Pasadena
Waite, Lillian Eva.....	San Fernando
Ward, Lawrence Arthur.....	Glendale
Ward, Mabel.....	Los Angeles
Wieman, Drury Park.....	Los Angeles
Wieman, Lois Hazel.....	Los Angeles
Withey, Hettie Alice.....	Los Angeles
Woodworth, Clyde Cyril.....	Inglewood
Woolf, Robert Eugene.....	Phoenix, Ariz.
Yakeley, Leon.....	Los Angeles

SPECIALS

Beardsley, Emma Gertrude.....	Pasadena
Cushman, Marion Brownell.....	Los Angeles
Daniel, William Hardy.....	Santa Ana
Gillis Edward.....	Beaumont
Haney, Earl Webster.....	Los Angeles
Newberry, Claire Squire.....	Los Angeles
Ross, Britten.....	Alhambra
Wieman, Ernest Paul.....	Los Angeles
Wieman, Stella Bessie.....	Los Angeles

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Occidental College Bulletin

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MAY, 1911

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CATALOGUE OF
OCCIDENTAL
COLLEGE
1910-1911

ANNOUNCEMENT
for 1911-1912

LCS ANGELES, CALIFORNIA

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Calendar

1911

June 5-9, Monday-Friday

Final Examinations.

June 11, Sunday, 4 p.m.

Baccalaureate Sermon.

June 11, Sunday, 5 p.m.

Vesper Service of the College Christian Associations.

June 13, Tuesday

Senior Class Day.

June 14, Wednesday, 10:30 a.m.

Nineteenth Annual Commencement.

Sept. 18-19, Monday-Tuesday

Examinations for Admission, and for
Removal of Conditions. Registration
of New Students.

Sept. 20, Wednesday, 11 a.m.

First Semester Begins.

Nov. 23, Thursday

Thanksgiving Day.

Dec. 20, Wednesday, 4 p.m.

Christmas Vacation Begins.

1912

Jan. 3, Wednesday, 11 a.m.

Christmas Vacation Ends.

Jan. 29-Feb. 2, Monday-Friday

Mid-Year Examinations.

Feb. 2, Friday, 4 p.m.

First Semester Ends.

Feb. 5, Monday

Registration of New Students.

Feb. 6, Tuesday, 11 a.m.

Second Semester Begins.

Feb. 15, Thursday

Day of Prayer for Colleges.

Feb. 22, Thursday

Washington's Birthday.

Mar. 22, Friday, 4 p.m.

Spring Vacation Begins.

Apr. 2, Tuesday, 11 a.m.

Spring Vacation Ends.

June 3-7, Monday-Friday

Final Examinations.

June 9, Sunday, 4 p.m.

Baccalaureate Sermon.

June 9, Sunday, 5 p.m.

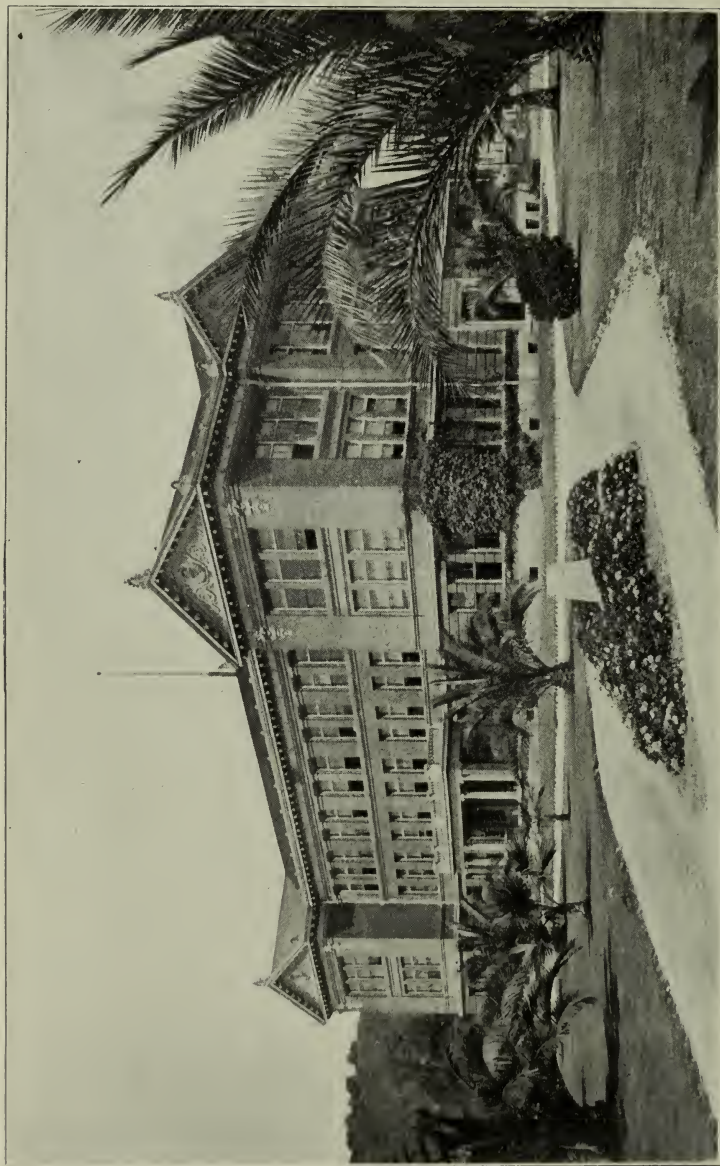
Vesper Service of the College Christian Associations.

June 11, Tuesday

Senior Class Day.

June 12, Wednesday, 10:30 a.m.

Twentieth Annual Commencement.



THE HALL OF LETTERS

Occidental College

OCCIDENTAL is a Christian College of the liberal arts and natural sciences, with certain very definite aims. One of these is to provide just the right training preliminary to the study of what are known as the learned professions. In carrying out this aim, those planning the practice of law, for example, are offered courses exactly suited to their requirements, in History, Economics, Sociology and English. Candidates for medicine are provided a superb program by the departments of Chemistry and Biology. Under the head of Mathematics and Physics, the student preparing for engineering finds his specialties for the first two years of the regular technical course. The work is as well planned and the equipment and instruction as thorough as in the best technical schools, the ordinary accessories for these two years being included and no loss of time involved. If he has means for a complete college course before going to the technical school, every year in Occidental may be turned to good advantage in his chosen calling, and greater success attained ultimately, than by any of the frequently preferred "short cuts."

The attention of candidates for the ministry is called to the admirable provision made for their needs in the Classics, Philosophy, English and History. Equal provision is made for those seeking other professions than the ones already named.

Occidental alumni wishing to teach in California secure the High School certificate on the same terms as graduates of the State University.

One purpose of the College, which must never be subordinated to another, is that of fitting men and women for life in its broadest sense. The value to the business man of the mental training, the wider knowledge of mankind and the high ideals acquired is beyond calculation. The brand of culture which accompanies every Occidental diploma means for the bearer reduced risk of failure, increased capacity for enjoyment, largely multiplied usefulness to society.

No post-graduate courses are offered. The entire resources of the institution are being concentrated on the one object of supplying the best undergraduate training possible. The removal of the College to the new campus, an event not to be long deferred, will bring with it facilities scarcely hoped for until recently. But without awaiting the change, improvement and expansion are constantly in evidence on the old campus, here in Highland Park. The former academy building will open in September as a boys' dormitory and student headquarters, with finely appointed gymnasium attached. A handsome structure for its former purpose, it lends itself admirably to the new. The funds heretofore required to maintain the academy will now add to the efficiency of the College proper. In this connection it is worthy of being known that Eastern Universities, as well as those in the West, are each year receiving Occi-

dentials' credits at face value, and are glad to welcome her students for higher or professional courses. This is to be expected, as the courses offered by the various departments of the College afford an excellent preparation for the work of the higher degrees.

One fact of supreme importance remains to be mentioned: Occidental, though bound by no peculiar creed, stands firmly on the great truths of evangelical Christianity.

Four things, therefore, are guaranteed to her patrons:

First, that the authority of God's word shall be recognized as paramount in all her teachings.

Second, that no sectarian influence shall be admitted within her walls.

Third, that standard, up-to-date courses shall be maintained in every department in which instruction is offered.

Fourth, that nothing shall be undertaken which cannot be done well.

Board of Trustees

Faculty and Instructors

Officers of Administration

Board of Trustees

Term expiring January 31, 1912:

Hon. Frank P. Flint,
Edward H. Groenendyke,
Rev. Robert Freeman,
M. Cochrane Armour.

Term expiring January 31, 1913:

Rev. Hugh K. Walker, D.D.
Rev. E. S. McKittrick, D.D.,
Arthur H. Fleming,
Fred H. Schauer, Esq.

Term expiring January 31, 1914:

Wm. H. Kelso,
Giles Kellogg,
W. C. Patterson,
Hon. Robert Watchorn.

Term expiring January 31, 1915:

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Rev. Wm. S. Young, D.D.,
E. P. Clapp, M.D.,
Willis H. Booth.

Term expiring January 31, 1916:

W. E. McVay,
D. B. Gamble,
John Willis Baer, LL.D.,
Webster Merrifield, Ph.D., LL.D.

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1718 South Flower Street, Los Angeles, Cal.

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First National Bank, Los Angeles, Cal.

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Curriculum—Trustees McKitrick, Walker, Young.

Grounds and Buildings—Trustees Clapp, Baer, Merrifield, Fleming, Gamble.

Finance—Trustees Patterson, McVay, Groenendyke, Gamble, Clapp.

Examinations—Trustees Young, Watchorn, Kellogg.

Library—Trustees Salisbury, Flint, Armour, Schauer, Kelso.

Degrees—Trustees Baer, McKitrick, Young, Kellogg, Walker.

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President.

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Dean of the Faculty: Professor of Philosophy.

WILLIAM S. STEVENSON, LL.D.,
Professor of Economics and Sociology.

ERNEST E. ALLEN, M.A.,
Registrar: Professor of Mathematics and
Astronomy.

MARY CARRUTH CUNNINGHAM, M.A.,
Professor of History.

WILLIAM D. WARD, Ph.D.,
Rutan Professor of Latin.

ANNA PEARL COOPER, M.A.,
Dean of Women: Professor of English.

CALVIN O. ESTERLY, Ph.D.,
Professor of Biology.

GEORGE F. COOK, Ph.D.,
Professor of Education: Assistant Professor of
Mathematics and Biology.

WILBUR A. FISKE, M.A.,
Professor of Geology: Assistant Professor of
Physics.

FREDERICK G. MILLER, M.A.,†
Professor of German.

*In order of appointment, excepting the President and the Dean.

†Deceased January, 1911.

OCCIDENTAL COLLEGE

WILLIAM BELL, M.A.,
Professor of French and Spanish.

LEONIDAS R. HIGGINS, Ph.D.,
Professor of Greek.

ELBERT E. CHANDLER, Ph.D.,
Professor of Chemistry.

JOHN MEAD ADAMS, Ph.D.,
Professor of Physics.

LINNAEUS H. WESTCOTT,
Instructor in Mechanical Drawing.

FRANCES ROSANNA FOOTE,
Librarian.

GEORGE W. BRADEN,
Physical Director.

JOHN PRICE ODELL, M.A.,
Associate Professor of English.

HOWARD W. KELLOGG, M.A.,
Professor of Biblical Literature.

ROBERTA INGRUM,
Assistant Librarian.

FRANK E. MOLL, M.A., S.T.B.,‡
Acting Professor of German.

M. GRACE BRECKINRIDGE,‡
Instructor in German and French.

‡Appointed January, 1911.

Officers of Administration

JOHN WILLIS BAER, LL.D.,
President.

THOMAS G. BURT, Ph.D.,
Dean of the Faculty.

ANNA PEARL COOPER, M.A.,
Dean of Women.

ERNEST E. ALLEN, M.A.,
Registrar.

FRANCES ROSANNA FOOTE,
Librarian.

ROBERTA INGRUM,
Assistant Librarian.

WILBUR G. SMART,
Business Manager.

ARTHUR G. PAUL, A.B.,
Assistant to the President.

MARY RUTH PERKINS, A.B.,
Secretary to the President.

Occidental Academy

According to a recent decision of the Trustees, the Academy is to be discontinued. No First-Year pupils will be received in September, 1911, and as the other classes move on their places will remain unfilled. Both old and new students will be welcomed in these classes as long as they continue. No change will be made from the able supervision of the past, and the best of care and instruction is guaranteed.

Address

Charles B. Moore, M.A., Principal.
Occidental Academy, Los Angeles, Cal.

STANDING COMMITTEES OF THE FACULTY.

President's Council—Dean Burt, Dean Cooper, Professor Stevenson, Professor Allen, Professor Ward, Principal Moore.

Admission, Classification and Schedule—Professor Allen, Professor Ward, Dean Burt.

Athletics—Professor Esterly, Director Braden, Professor Chandler, Professor Miller, Professor Bell.

Catalogue and Curriculum—Professor Ward, Professor Stevenson, Professor Allen, Professor Esterly, Professor Bell, Dean Burt.

Christian Work—Professor Cunningham, Professor Miller, Professor Kellogg, Professor Cook, Mr. Westcott.

Grounds and Buildings—Professor Fiske, Professor Odell, Professor Ward.

Laboratories—Professor Adams, Professor Esterly, Professor Cook, Professor Fiske, Professor Chandler.

Library—Professor Higgins, Miss Foote, Dean Burt, Dean Cooper, Professor Kellogg.

Public Exercises—Dean Burt, Dean Cooper, Professor Ward.

Rules and Discipline—Dean Burt, Dean Cooper, Professor Higgins, Professor Cook, Professor Ward, Professor Allen.

Social Life—Dean Cooper, Dean Burt, Director Braden.

Events of the Year

1910

- May 12** Lecture before the Faculty Round Table, Prof. W. D. Ward, Ph. D., Occidental College. "The Medea Myth as Handled by Euripides and Seneca."
- May 13** Address, Rev. Albert Hatcher Smith, Pasadena. "A Man's Reserve."
- May 13** Annual Demonstration of the Department of Physical Training.
- May 16** Intercollegiate Oratorical Contest of the Prohibition League, at Occidental College.
- May 24** Occidental-University of Southern California Debate, at Occidental College.
- May 26** Intercollegiate Oratorical Contest of the Southern California Peace Society, at Occidental College.
- May 27** Illustrated Lecture, Prof. Elbert E. Chandler, Ph. D., Occidental College. "The Panama Canal."
- May 27** Home Concert, Occidental Glee Club.
- June 12** Baccalaureate Sermon, Rev. Edwin F. Haltenbeck, D. D., San Diego.
- June 12** Vesper Service of the College Christian Associations.
- June 13** Senior Play.
- June 14** Senior Class Day.

- June 15** Eighteenth Annual Commencement.
- June 15** Alumni Banquet.
- Sept. 14** Opening of the New College Year. Address by President John Willis Baer, LL. D. "The Lure and Lust of Life."
- Sept. 16** Address, Rev. Robert J. Burdette, D.D., Pasadena. "The Sacrifice Hit."
- Sept. 23** Address, Rev. Arthur S. Phelps, D.D., Los Angeles. "Going Some."
- Sept. 30** Address, Hon. John G. Woolley, Honolulu. "The Liquor Business from the Standpoint of Efficiency."
- Oct. 5** Address, President Benjamin Ide Wheeler, Ph.D., LL.D., University of California, Berkeley. "Mexico."
- Oct. 6** Lecture before the Faculty Round Table, Prof. John Mead Adams, Ph.D., Occidental College. "Tops."
- Oct. 14** Address, Miss Eva M. Clarke, India. "India and Its Needs."
- Oct. 18** Address, Rev. H. H. Bell, D.D., San Francisco. "The Dignity of Life."
- Oct. 21** Address, Rev. Dana W. Bartlett, D.D., Los Angeles. "Let the People Rule."
- Oct. 28** Lecture, Rev. Hugh K. Walker, D.D., President of the Board of Trustees, Los Angeles. "Around the World."
- Nov. 11** Address, George R. Parkin, Secretary to the Trustees of the Rhodes Scholarships, London, Eng. "The Rhodes Scholarship Bequest."

- Nov. 18 Address, Rev. J. Whitcomb Brougher, D.D.,
Los Angeles. "What is Under Your Hat?"
- Nov. 21 Illustrated Lecture, Director George W. Bra-
den, Occidental College. "Modern Handling
of Tuberculosis Patients."
- Dec. 1 Lecture before the Faculty Round Table, Prof.
John P. Odell, M.A., Occidental College.
"William De Morgan, Humorist and Hu-
manist."
- Dec. 9 Lecture, Prof. E. B. Warman, Pasadena.
"Health."
- Dec. 9 First Annual Occidental Dinner.
- Dec. 15 Occidental-Pomona Debate, at Occidental Col-
lege.

1911

- Jan. 5 Lecture before the Faculty Round Table, Prof.
Geo. F. Cook, Ph.D., Occidental College.
"Present Demands on Education."
- Jan. 6 Address, Mrs. Robert J. Burdette, Pasadena.
"Society Ideals."
- Jan. 13 Address, Mr. A. Montgomery, the "Farmer
Painter," Los Angeles.
- Jan. 13 "Two Gentlemen from Verona," presented by
The Arden Shakespeare Club.
- Jan. 17 Illustrated Lecture, Prof. John Mead Adams,
Ph.D., Occidental College. "The Great
American Migration."
- Jan. 18 Address, President Edward D. Eaton, LL.D.,
Beloit College, Beloit, Wis. "The Purpose
of the Christian College."

- Jan. 19 Local Oratorical Contest of the Prohibition League.
- Jan. 20 Address, President Harry Garfield, LL.D., Williams College, Williamstown, Mass. "Student Self-Government."
Greetings from the Doshisha, President Tasuke Harada, LL.D., The Doshisha, Kyoto, Japan.
- Feb. 2 Lecture before the Faculty Round Table, Miss Frances R. Foote, Occidental College. "Relations of the Library to a College Education."
- Feb. 3 Lecture before the Classical Society, Dr. Webster Merrifield, Pasadena. "The Roman Forum."
- Feb. 7-8 Addresses, Messrs. E. C. Carter and E. C. Mercer, New York City.
- Feb. 9 Address, Rev. Robert Freeman, Pasadena. "One's Duty to One's Self."
- Feb. 10 Lecture, President Warren Hale Landon, D.D., San Anselmo Theological Seminary, San Anselmo. "Oberammergau."
- Feb. 14 Illustrated Lecture, Prof. Fiske, M.A., Occidental College. "Three Weeks in the High Sierras."
- Feb. 24 Address, Hon. James A. MacDonald, LL.D., Editor of the Toronto Globe, Toronto, Canada. "The Call for Men."
- March 2 Lecture before the Faculty Round Table, Prof. Howard W. Kellogg, M.A., Occidental College. "The Bible and Shakespeare."

- March 2** Freshman Declamation Contest.
- March 3** Address, Ex-Vice-President Charles W. Fairbanks, Indianapolis, Ind. "The Oriental Outlook."
- March 6** Illustrated Lecture, Prof. Calvin O. Esterly, Ph.D., Occidental College. "Ants."
- March 10** Address, Hon. Lorin A. Handley, City Clerk of Los Angeles. "The Power of a Man's Will."
- March 10** Junior Night.
- March 16** Address, Col. Elijah T. Halford, Indianapolis, Ind. "The Value of a Man."
- March 17** Scotch Readings and Songs, Rev. Robert Freeman and Mrs. Walter Raymond, Pasadena.
- March 18** Intercollegiate Oratorical Contest, at Occidental College.
- March 22** Address, Ex-President Theodore Roosevelt, New York City. "The Prize and the Price of Student Ambition."
- April 4** Illustrated Lecture, Prof. L. R. Higgins, Ph.D., Occidental College. "The Ancient versus the Modern City."
- April 6** Lecture before the Faculty Round Table, Prof. Frank E. Moll, M.A., S.T.B., Occidental College. "German Satirical Writers of the Reformation Period."
- April 7** Address, Hon. Willis H. Booth, Los Angeles. "China from the Business Man's Viewpoint."
- April 10** Address, President Luella M. Carson, Ph.D., LL.D., Mills College, Oakland. "College Womanhood in the West."

- April 14** Memorial Service for Professor Frederick G. Miller, M.A., deceased, Jan. 17.
- April 21** Address, Rev. S. E. Wishard, D.D., Los Angeles. "The Passion Play of Oberammergau."
- April 25** Lecture before the Classical Society, Dr. Webster Merrifield, Pasadena. "Horace's Sabine Farm."
- April 28** Illustrated Lecture, Prof. Ernest E. Allen, M.A., Occidental College. "Today's Solar Eclipse."
- April 28** Intercollegiate Oratorical Contest of the Prohibition League.
- May 2** Lecture, Prof. Howard W. Kellogg, M.A., Occidental College. "Fighting a Phantom."
- May 3** Address, Rev. Louis B. Meyer, D.D., Associate Editor, *Missionary Review of the World*, New York. "The Jew in America."
- May 5-6** Annual Visit of Astronomy and Physics Departments to the Mt. Wilson Solar Observatory.
- May 11** Address, President Sennosuke Ogata, D.D., Aoyama Gakuin, Tokyo, Japan. "A Glimpse of Japanese Student Life."
- May 12** Address, Senator Charles W. Bell, Pasadena. "Experiences at Sacramento."
- May 19** Address, Rev. W. H. Fishburn, D.D., Los Angeles. "Bigness and Worth."
- May 26** The "Phormio" of Terence, presented by the Latin Department of Occidental College.

Material Equipment

Grounds

A new campus of ninety acres has just been acquired by gift and purchase, to which the College will be removed in the near future. The site chosen is a part of Occidental Park, in Eagle Rock Valley. Lying among the hills, with the mountains in the background, it is nevertheless easily accessible by trolley from any part of Los Angeles. Convenience of location, pure atmosphere and magnificent natural scenery combine in rendering it an ideal place for a college.

The present campus consists of twenty-five acres located in Highland Park, in the northeastern portion of Los Angeles, midway between the business center of that city and Pasadena. It is easy of access, being on one of the boulevards which connect the two cities and reached by two lines of electric cars. At the same time it is quite suburban in its surroundings, and by its altitude clear removed from the smoke and dust of the city. Health and beauty of situation are enhanced by the presence of a cultured Christian community in which the different churches vie with each other in providing every religious and social advantage.

Buildings

The Hall of Letters contains the rooms of the administrative officials, and lecture rooms for all

departments except Biology, Geology and Chemistry. It contains also the halls of the Christian Associations and of the Literary Societies, and an auditorium furnished with opera chairs and having a seating capacity of five hundred. Actual use has proved it to be admirably adapted to the requirements of an up-to-date, progressive school.

The Stimson Library, erected by Mr. C. M. Stimson of Los Angeles, is one of the most beautiful library buildings on the Coast. The lower floor is at present used by the departments of Biology and Geology. The main floor contains reading and reference rooms, librarian's office, stack room, and the usual facilities for efficient work.

The building on the west side of the campus, formerly occupied by the Academy but now changed to a Boys' Dormitory, is attractive in design and provides quarters both comfortable and convenient.

Next to the Dormitory is the Gymnasium, newly equipped with a variety of physical apparatus, hot and cold baths, and a court for indoor games.

In addition to these, there are two frame buildings used as Chemical Laboratories.

Library

The Stimson Library contains nearly eight thousand volumes, including many valuable reference works. Additions are continually being made. Several of the department libraries are especially creditable, being well stocked with the latest and best literature in their particular lines.

Laboratories and Apparatus.

The Biological Laboratories are well equipped. The student in the beginning courses is provided with a compound microscope suitable for all ordinary work; in the higher courses where a microscope is required, each student has an instrument that is completely equipped with condenser, oil-immersion objective and camera. The departments have a very full equipment of stains, reagents and microscopical accessories, such as microtomes, paraffine baths and the like.

The zoological collections are adequate for present needs, containing representative types of the animal kingdom and some special preparations of both vertebrates and invertebrates. There is a working collection of bird skins. There are also a number of good models for embryology and a complete dissectable model of man.

The Botanical equipment is fully sufficient for the needs of the courses offered. Included in the collection is a catalogued herbarium of about 1000 sheets.

The department of Geology and Mineralogy is equipped for efficient work. One of the chief features is a large and valuable collection of minerals, rock specimens and fossils, many of which have been collected by students of the department, others donated by friends of the College, while several sets have been purchased from reliable dealers. About two thousand lantern slides, illustrating nearly every feature of geological interest, have

been made in the department, and the number is continually increasing.

These, accompanied by maps, models, geological charts and other illustrative material, greatly assist in acquiring a proper conception of the laws of dynamical and historical geology.

The Chemical laboratories occupy, for the present, two frame buildings on the edge of the campus. One of these buildings contains a lecture room, a laboratory for general chemistry and qualitative analysis, and a well equipped supply room. The other contains a laboratory for quantitative analysis and organic chemistry, and a weighing room, well supplied with analytical balances. Both laboratories are provided with modern desks, each with its own set of apparatus, so that the student may work independently. Extra apparatus may be obtained from the supply room as needed. New apparatus and equipment are being added each year as the needs of the courses demand it.

The department of Physics is equipped with a large supply of modern apparatus for demonstration from the best foreign makers, and with individual laboratory apparatus for two years of college work as well as for the elementary course. A valuable addition to the department's resources is a workshop supplied with a two-horsepower motor, a screw-cutting engine lathe, a wood lathe, a saw table, an emery grinder, and a one-kilowatt direct-current generator.

The department of Mathematics is equipped with a reference library of 200 volumes, by the best

authors, and covering every branch of mathematics. A ten-inch Newtonian reflecting telescope is already on the ground, and the expectation is that it will be mounted in a suitable observatory. The department also has two sextants, transit, Y level, leveling rod, polar planimeter, slide rule, Thatcher's calculating machine, Crelle's calculating tables, a high-grade protractor, parallel rulers, celestial globe, planetarium, and a number of less important instruments.

Requirements for Admission

Requirements for Admission

Admission to the Freshman Class

Candidates for admission to the Freshman Class should be sixteen years of age and provided with testimonials of good moral character. Applicants not presenting certificates from accredited high schools or academies will be required to take examinations in all subjects for which they seek admission credit.

Graduates of accredited high schools or academies will be given credit for the subjects in which they are recommended. All credits are however, subject to the test of the class room. Blanks for certificates will be furnished on application to the Registrar, and it is expected that all applicants for admission without examination will use them. To be admitted to full Freshman standing the candidate must present admission credits amounting to fifteen units of academy or high school work, the unit being understood to represent five recitations per week in one subject continued through one school year.

Admission Subjects

A detailed description of the subjects here enumerated may be found on pages 35 to 46. Other subjects may be accepted and will be considered on their merits when presented.

1. English, Elementary	2 units
2. English, Advanced	1 unit
3. English, Advanced	1 unit
4. Algebra, Elementary	1 or 1½ units
5. Algebra, Advanced	½ unit
6. Plane Geometry	1 unit
7. Solid Geometry	½ unit
8. Plane Trigonometry	½ unit
9. Ancient History	1 unit
10. Mediaeval and Modern History	1 unit
11. English History	1 unit
12. History and Government of U. S.	1 unit
13. Latin, Elementary	2 units
14. Cicero and Latin Composition	1 unit
15. Virgil and Latin Composition	1 unit
16. Greek, Elementary	2 units
17. Homer and Greek Composition	1 unit
18. German, Elementary	2 units
19. German, Intermediate	1 unit
20. German, Advanced	1 unit
21. French, Elementary	2 units
22. French, Intermediate	1 unit
23. French, Advanced	1 unit
24. Spanish	2 units
25. Physics	1 unit
26. Chemistry	1 unit
27. Botany	1 unit
28. Zoology	1 unit
29. Physiology	1 unit
30. Physical Geography	1 unit
31. General Science	1 unit
32. Freehand Drawing	1 unit
33. Mechanical Drawing	1 unit

Unconditioned Entrance

For unconditioned entrance the following admission subjects must be presented:

English 2 units

Algebra 1 unit

Plane Geometry 1 unit

English History
Hist. & Gov. of U. S. } one 1 unit

Latin
German
French
Spanish } one 2 units

Physics
Chemistry
Botany
Zoology
Physiology } one 1 unit

Chosen by the candidate 7 units

15

The subject presented in fulfilment of the Science requirement must have been taken in a class made up of third-year or fourth-year pupils.

The completed list of subjects must necessarily include all prerequisites of the courses to be begun in College. Information regarding these prerequisites is given in connection with the several groups outlined on pages 52 to 57. For exact detail consult "Departments of Instruction," pages 61 to 105.

Conditioned Entrance

Candidates who are deficient in not more than one and one-half units of the required fifteen may be admitted as conditioned Freshmen; but all entrance conditions must be removed before any student may be ranked as a Junior.

Advanced Standing

Students from other institutions of recognized collegiate rank will be admitted to such standing as seems fair in the judgment of the Faculty. The application must be accompanied by a letter of honorable dismissal, a catalogue of the institution granting it, an official statement of subjects completed, with the number of terms and the number of hours per week devoted to each subject, and a similar statement of entrance credits.

Students at Large and Special Students

No student is permitted to register for less than twelve units of work in any semester, save by a special vote of the Faculty. Subject to this provision, recommended graduates of accredited preparatory schools presenting any fifteen units included in the list of admission subjects named on page 32 may be admitted as students at large, with the privilege of taking such courses as their preparation allows. Those whose preparation does not admit them to the status of students at large or of conditioned Freshmen are sometimes admitted as special students, but only in case of age and maturity. Students at large and special students

are subject to the same regulations as the others. They may become candidates for a degree at any time by meeting the usual entrance requirements. On withdrawing from the institution they will be granted certificates showing the work completed.

Description of Admission Subjects

1. English, Elementary. (2 units.)

(a) A practical knowledge of grammar, and of the elements of rhetoric, and the ability to write correct English.

(b) Literature for careful reading:

1907-11. Group I. (two to be selected): Shakespeare's *As You Like It*, *Henry V.*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II. (one to be selected): Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, Part 1; *The Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III. (one to be selected): Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II. and III., with especial attention to Dryden, Collins, Gray, Cowper and Burns.

The work in literature in admission subjects 1 and 2 is based upon the Uniform Entrance Requirements in English. Books substituted must be equivalent in literary merit and similar in type to those omitted.

Group IV. (two to be selected): Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V. (two to be selected): Irving's *Sketch Book*; Lamb's *Essays of Elia*; DeQuincey's *Joan of Arc and the English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI. (two to be selected: Coleridge's *Ancient Mariner*; Scott's *Lady of the Lake*; Byron's *Mazeppa and the Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV., with especial attention to Wordsworth, Keats and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and *The Passing of Arthur*; Browning's *Poems* (selected).

2. English, Advanced. (1 unit.) Literature for detailed study:

1907-11. Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Pensero*; Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and Webster's *First Bunker*

Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

3. English, Advanced. (1 unit.) Advanced composition, including training in the various forms of discourse: description, narrative, exposition and argumentation.

4. Algebra, Elementary. (1 or $1\frac{1}{2}$ units.) The fundamental laws, laws of exponents, formulas of multiplication, binominal theorem with positive integral exponent, factoring, common divisors and multiples, radicals, simultaneous equations of the first degree, quadratic equations, theory of quadratic equations, the elementary presentation of roots, powers, series and logarithms.

5. Algebra, Advanced. ($\frac{1}{2}$ unit.) Simultaneous quadratic equations and equations essentially quadratic; fractional exponents, fractional and irrational equations; roots and powers of polynomials; series; binominal theorem; logarithms; and the elements of the theory of equations.

6 Plane Geometry. (1 unit.) The general properties of plane figures, the circle and the measure of angles, areas, regular polygons, and the measure of the circle; the usual demonstrated theorems and original propositions.

7. Solid Geometry. ($\frac{1}{2}$ unit.) Relations of lines and planes to space; the properties of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; original propositions.

8. Plane Trigonometry. ($\frac{1}{2}$ unit.) The development of the general formulae of elementary plane trigonometry; the theory and use of logarithms; the numerical solution of plane triangles and of trigonometrical problems in heights and distances.

9. Ancient History. (1 unit.) A year's work in the history of the Eastern Nations, Greece and Rome, to the establishment of Charlemagne's empire. In Grecian history special attention should be given to the period from the fifth to the second century B.C., and in Roman history to the period from the conquest of Italy to the establishment of Christianity. Outlines, maps, and papers on special topics should be prepared, and should be presented at the time of the examination.

10. Mediaeval and Modern History. (1 unit.) A year's work in European history from Charlemagne's time to the present. Special attention should be given to mediaeval institutions, the struggle between the empire and the Papacy, the Reformation, and the French Revolution. About one-fifth of the work should be put upon the nineteenth century. Outlines, maps and papers upon special topics should be prepared, to be presented at the time of the examination.

11. English History. (1 unit.) A year's work in the history and government of England. Maps, outlines and special reports should be presented at the time of the examination.

12. History and Government of the United States.

(1 unit.) A year's study beyond the grammar school, with considerable work in outlines, papers, notes and reports, to be presented at the time of the examination. The candidate for admission should have a good working knowledge of the Constitution of the United States, and should be familiar with the works of reference on American history found in good high school libraries.

13. Latin, Elementary. (2 units.)

Two years of daily exercises are necessary to complete this requirement. The first object to be sought is correct pronunciation, following which, and still more important, is an accurate knowledge of forms. The failure to attain this is responsible for most of the failure and drudgery of the Latin course. Four books of Caesar should be read in class, accompanied by persistent drill in constructions and frequent translation from English into Latin of sentences based on the text. Occasional practice in sight reading is assumed. One result of this course should be a vocabulary, thoroughly learned, of twelve to fifteen hundred words. The substitution of other authors for a portion of the Caesar is admissible.

14. Cicero and Latin Composition. (1 unit.)

Six orations of Cicero are required, including the four against Catiline and the one in support of the Manilian Law. Work in constructions should be unremitting. The work in composition should be somewhat more advanced, involving greater attention to

the orderly arrangement of the sentence and the joining of sentences into connected paragraphs. Sight reading, in the same author, should be given an increasingly important place, not merely for added facility in translation but for the purpose of discovering and correcting faulty habits of preparation. Time required, one year.

15. Vergil and Latin Composition. (1 unit.) This subject calls for the reading and interpretation of the first six books of Vergil's Aeneid, together with daily or weekly exercises in prose composition based on the authors previously read. After three years devoted to the acquisition of the language, the study of Vergil should be approached with a literary rather than a purely linguistic purpose. Ability to read the hexameter metrically at sight is expected of students who have completed this course. The value of the course will be materially increased by the addition of sight reading either in the same author or in one of the easier prose writers.

16. Greek, Elementary. (2 units.) The requirement includes a knowledge of prose forms and prose syntax, a good Xenophon vocabulary, and some knowledge of English derivatives. Forms and syntax are usually sufficiently drilled upon, but generally not enough attention is given to vocabulary and English derivatives. White's First Book, Xenophon's Anabasis, I.-IV., and Pearson's Composition, Parts I.-II., represent the work to be covered.

17. Homer and Greek Composition (1 unit.) Homer's Iliad I.-III. and Pearson's Prose Composi-

tion are the minimum of preparation. In Homer, a knowledge of Homeric grammar and the prose equivalents of common poetical words, where there are such, and the ability to read Homer not only metrically but with expression, are essential. Some attention should also be given to character study and to Homeric life. In composition, the ability to do easy prose based on Xenophon is required.

18. German, Elementary. (2 units.) This requirement covers two years of high school German. A thorough knowledge of the elements of German grammar is expected and the ability to translate ordinary German into English at sight or English into German. A fair knowledge of poetry and evidence of solid composition work is also required.

19. German, Intermediate. (1 unit.) The ability to read at sight ordinary German prose or poetry, to translate easy English into German, to answer simple questions in German, and to give evidence of familiarity with the essentials of German grammar, including particularly the rules concerning the declension of adjectives and nouns, the conjugation of verbs and word order. Amount of reading required, about 400 pages.

20. German, Advanced. (1 unit.) German prose reading of the more difficult selections from standard authors. Poems memorized, composition work which leaves no doubt as to the thorough grammatical drill of the applicant. The candidate must be able to write in German, short, original themes

upon assigned topics. Not less than 700 pages of good modern literature required.

21. French, Elementary. (2 units.) The essentials of grammar, including the regular and the most common irregular verbs, forms and positions of pronouns. The reading of at least 250 pages of modern prose. Easy composition and dictation. Conversation on the text read. Particular stress should be laid on correct pronunciation.

22. French, Intermediate. (1 unit.) Review of the essentials of grammar. Study of irregular verbs and the study of advanced grammar. Composition, written and oral. Reading of about 400 pages of prose by standard modern authors and one or two modern plays. Written analysis and criticisms on text read and conversation on the same. Sight reading and translation. Special attention should be paid to the correct use of idioms.

23. French, Advanced. (1 unit.) The reading of about 800 pages of classical and modern French works by standard authors. The writing of numerous short themes either on topics of every day life or on the text read. Frequent discussions in French on the text read, and advanced composition.

24. Spanish (2 units.) Thorough work in grammar, with especial attention to verb drill, including the subjunctive. Sight reading and translation of about five hundred pages, including some poetry. Easy Spanish composition and original short themes.

25. Physics. (1 unit.) The requirement represents at least one daily exercise throughout the year (preferably the last) in academy or high school, and includes elementary mechanics, heat, sound, light, electricity and magnetism. There should be close relation between class work, lecture demonstration work and laboratory work. Emphasis should be placed on principles, application of principles to daily life, and ability to solve problems and to think. The class work should include the study of some standard, up-to-date text; such, for example, as Millikan and Gale's First Course in Physics. In the laboratory the student should individually perform with some accuracy at least thirty-five typical experiments, and should present at entrance a well written note book, properly indexed, duly signed by the instructor.

26. Chemistry. (1 unit.) The completion of an elementary course in general chemistry is required, with practical work in the laboratory. The work is represented by that given in Brownlee's First Principles of Chemistry and Laboratory Manual. Note books, satisfactory to the head of the department, may also be required.

27. Botany. (1 unit.) Applicants for credit in this subject must show ability, obtained during a full year's work of five exercises per week, to solve problems in the field and laboratory. It is not deemed sufficient to simply know terms. The applicant must be able to give intelligent explanations for local conditions. A well kept note book signed

by the instructor must accompany the application. The pupil must have a general knowledge of plant morphology and physiology and also be able to recognize readily the common orders of flowering plants. The following texts or their equivalents suggest the scope of the work required: Osterhout's Experiments, Bergen's Elements of Botany.

28. **Zoology.** (1 unit.) The prerequisites for credit in this subject correspond in time and method to those called for in Botany. The scope of the work is suggested by the text of Linville and Kelly.

29. **Physiology.** (1 unit.) Credit will not be given for elementary physiology and hygiene done in the grammar grades. The work must at least have covered the equivalent of Martin's Human Body. Four hours per week must have been spent in a well organized laboratory. Candidates must present note books signed by an instructor.

30. **Physical Geography.** (1 unit.) This course should have seven periods per week for one year, of which four should be arranged as double laboratory periods. The subject as presented in a text book should be supplemented by laboratory work, including experiments and map study. Records of this work should be kept in a note book, which should be presented as a part of the entrance requirement. The work should include the commonly accepted divisions of the subject, viz.: mathematical geography, the atmosphere, the ocean, and land forms.

31. General Science. (1 unit.) The requirement represents at least five forty-five-minute exercises a week for one year, of which two-fifths or more should be laboratory work. A record should be made of at least thirty-five experiments individually performed and the note book presented at entrance.

It is suggested that the course be based upon physical principles so related to the biological that one science will dovetail into another related in principles and applications. The course may well include such common basic phenomena and facts as: Oxidation; physical and chemical changes; composition of air, water, food, rocks and soil; physiological processes of life, growth and decay; hygiene and sanitation with reference to bacteria in the home, agriculture, disease and the industrial arts; uses and sources of foods; cycle of organic life and interdependence of plants, animals and man; influence of climatic, seasonal and geologic changes; relation of the earth to heavenly bodies.

32. Freehand Drawing. (1 unit.) The requirement represents a daily exercise for forty-five minutes for two years; the credit allowed, however, must be based on the amount and quality of the work accomplished, which must be submitted for examination.

The work should consist of studies of the principles of light and shade and perspective from geometric models, sphere, cube, prisms, etc., and other simple objects of similar form. They should be treated both singly and in groups.

33. **Mechanical Drawing.** (1 unit.) The requirement represents the work usually covered with a daily exercise of forty-five minutes throughout one year. It should consist of exercises adapted to develop neatness and accuracy in the use of drawing instruments, geometrical figures and curves, free-hand lettering, and other exercises leading up to the technical courses. The student's work must be submitted for examination.

Requirements for Graduation

Requirements for Graduation

No student is permitted to graduate who has not spent at least one year in resident study at the College.

The unit employed in reckoning college credits is one exercise per week in one subject continued through a semester. One hundred and twenty-eight of these units are required for graduation, sixty-eight to be completed normally in the Freshman and Sophomore years, and sixty in the Junior and Senior.

Courses of Study

The courses of study have been arranged with three objects in view:

1. General culture.
2. Special training in particular lines.
3. Free election on the part of the student of such subjects as harmonize best with his individual purpose.

To meet the requirement of general culture, certain subjects are prescribed in all courses leading to a degree, viz.:

Physical Training	4 units
Bible	8 units
Rhetoric and Composition	6 units

English Literature	6 units
Mathematics	3 units
Science	6 units
History	6 units
Psychology	3 units
Logic	3 units
Ethics	3 units

Either before or after entrance, students in Group I. must have the equivalent of one college year, and students in all other groups the equivalent of two college years, of French or German.

Two years of preparatory Latin, or its equivalent taken in college, is required of all candidates for the degree of Bachelor of Arts.

To meet the requirement of special training, every student is expected to choose two departments in which to pursue advanced or Upper Division courses. Certain prerequisites, found among the Lower Division courses and extending ordinarily through the Freshman and Sophomore years, must first be completed; after which, Upper Division courses amounting to 18 units in the two departments chosen (6 being the minimum in either) must be completed before graduation. The dual groups from which this selection may be made are eleven in number, each furnishing the characteristic of one of the larger groups outlined on pages 52 to 57.

To meet the requirement of free election, every student is permitted to select a number of subjects,

varying somewhat in amount according to the group chosen, and subject only to the necessary sequence of courses within the several departments.

Provided all other requirements for graduation be fulfilled, each of the groups outlined on the following pages leads to one of two degrees, viz.:

Groups I.-VIII., Bachelor of Arts.

Groups IX.-XI., Bachelor of Science.

SYNOPSIS OF GROUPS

Explanation.

Before receiving the diploma of Occidental College, one of the following groups must be completed, together with electives sufficient to bring the total of college credits up to 128 units. An admission credit allowed to take the place of a college requirement is not to be deducted from this number unless it is in excess of the 15 units of admission credit required for entrance. When allowed to be deducted, which is only under definitely prescribed conditions, a year subject, taken five times a week in the High School, counts for 3 College units.

The subjects from Physical Training down to Psychology inclusive are mostly taken in the Freshman and Sophomore years. In Bible, however, a two-hour course is required of every student, either the first or second semester of each year. Logic and Ethics belong in the last two years of the course. For further explanation of the courses of study, see page 49.

Group I.
Latin-Greek.

Entrance Requirements:
Latin four years; otherwise
as shown on page 33.

	Units
Latin (L.D.)	12
Greek (L.D.)	*25
Or an equal amount taken in High School and College.	
Latin } (U.D.)	18
Greek }	
Physical Training	4
Bible	8
English	
Rhet. and Comp.....	6
Literature	6
French } one	†10
German }	
Or an equal amount taken in High School.	
Mathematics	3
Science	6
History	6
Psychology	3
Logic	3
Ethics	3

L. D. stands for Lower Division courses.

U. D. stands for Upper Division courses.

*Two years of admission credit in Greek removes 10 units of this requirement.

†Two years of admission credit in French or in German removes this requirement.

**Group II.
French-German.**

Entrance Requirements:
as shown on page 33.

Units

French (L.D.).....*16
Or an equal amount taken
in High School and Col-
lege.

German (L.D.).....*16
Or an equal amount taken
in High School and Col-
lege.

French } (U.D.).....18
German }

Physical Training..... 4

Bible 8

English

Rhet. and Comp..... 6

Literature 6

Latin†10
Or an equal amount taken
in High School.

Mathematics 3

Science 6

History 6

Psychology 3

Logic 3

Ethics 3

**Group III.
English-Latin.**

Entrance Requirements:
Latin four years; otherwise
as shown on page 33.

Units

English (L.D.)

Rhet. and Comp..... 6

Literature 6

Latin (L.D.).....12

English } (U.D.) 18
Latin }

Physical Training..... 4

Bible 8

French } One*16
German }
Or an equal amount taken
in High School and Col-
lege.

Mathematics 3

Science 6

History 6

Psychology 3

Logic 3

Ethics 3

L. D. stands for Lower Division courses.

U. D. stands for Upper Division courses.

*Whether in French or in German, two years of admission credit removes 10 units of the requirement; the third and fourth years count for 3 units each additional.

†Two years of admission credit in Latin removes this requirement.

Group IV. English-Greek.

Entrance Requirements:
as shown on page 33.

	Units
English (L.D.)	
Rhet. and Comp.....	6
Literature	6
Greek (L.D.).....	*25
Or an equal amount taken in High School and Col- lege.	
English } (U.D.)	18
Greek }	
Physical Training.....	4
Bible	8
French, }	†26
German, }	
Latin }	
Or an equal amount taken in High School and Col- lege.	
Mathematics	3
Science	6
History	6
Psychology	3
Logic	3
Ethics	3

Group V. English-French.

Entrance Requirements:
as shown on page 33.

	Units
English (L.D.)	
Rhet. and Comp.....	6
Literature	6
French (L.D.)	†16
Or an equal amount taken in High School and Col- lege.	
English } (U.D.)	18
French }	
Physical Training.....	4
Bible	8
Latin	§10
Or an equal amount taken in High School.	
Mathematics	3
Science	6
History	6
Psychology	3
Logic	3
Ethics	3

L. D. stands for Lower Division courses

U. D. stands for Upper Division courses.

*Two years of admission credit in Greek removes 10 units of this requirement.

†Sixteen units either in French or in German, and 10 in Latin. In the French or German, two years of admission credit removes 10 units of the requirement; the third and fourth years count for 3 units each additional. In the Latin, two years of admission credit removes the requirement.

‡Two years of admission credit in French removes 10 units of this requirement; the third and fourth years count for 3 units each additional.

§Two years of admission credit in Latin removes this requirement.

**Group VI.
English-German.**

Entrance Requirements:
as shown on page 33.

	Units
English (L.D.)	
Rhet. and Comp.....	6
Literature	6
German (L.D.).....*	16
Or an equal amount taken in High School and Col- lege.	
English } (U.D.)	18
German }	
Physical Training.....	4
Bible	8
Latin	†10
Or an equal amount taken in High School.	
Mathematics	3
Science	6
History	6
Psychology	3
Logic	3
Ethics	3

**Group VII.
English-History.**

Entrance Requirements:
as shown on page 33.

	Units
English (L.D.)	
Rhet. and Comp.....	6
Literature	6
History (L.D.)	12
English } (U.D.)	18
History }	
Physical Training.....	4
Bible	8
French }	
German }	‡26
Latin }	
Or an equal amount taken in High School and Col- lege.	
Mathematics	3
Science	6
Economics	6
Psychology	3
Logic	3
Ethics	3

L. D. stands for Lower Division courses.

U. D. stands for Upper Division courses.

*Two years of admission credit in German removes 10 units of this requirement: the third and fourth years count for 3 units each additional.

†Two years of admission credit in Latin removes this requirement.

‡Sixteen units either in French or in German, and 10 in Latin. In the French or German, two years of admission credit removes 10 units of the requirement: the third and fourth years count for 3 units each additional. In the Latin, two years of admission credit removes the requirement.

Group VIII. History-Economics.

Entrance Requirements:
as shown on page 33.

	Units
History (L.D.).....	12
Economics (L.D.)	6
History } (U.D.)	18
Economics }	
Physical Training.....	4
Bible	8
English	
Rhet. and Comp.....	6
Literature	6
French }	
German }	*26
Latin }	
Or an equal amount taken in High School and Col- lege.	
Mathematics	3
Science	6
Psychology	3
Logic	3
Ethics	3

Group IX. Mathematics-Physics.

Entrance Requirements:
Solid Geometry, Trigonom-
etry, Physics, Chemistry;
otherwise as on page 33.

	Units
Mathematics (L.D.).....	9
Physics (L.D.)	12
Mathematics } (U.D.)	18
Physics }	
Physical Training.....	4
Bible	8
English	
Rhet. and Comp.....	6
Literature	6
French }	
German }	†22
Latin }	
Or an equal amount taken in High School and Col- lege.	
History	6
Chemistry	6
Psychology	3
Logic	3
Ethics	3

L. D. stands for Lower Division courses.

U. D. stands for Upper Division courses.

*Sixteen units either in French or in German, and 10 in Latin. In the French or German, two years of admission credit removes 10 units of the requirement: the third and fourth years count for 3 units each additional. In the Latin, two years of admission credit removes the requirement.

†(1) The entire 22 units may be taken either in French or in German. (2) Sixteen units may be taken in French or in German, and 10 units of the other, or of Latin, substituted for the remaining 6. In any one of the three languages two years of admission credit removes 10 units of the requirement, while in French or German the third and fourth years count for 3 units each additional.

**Group X.
Chemistry-Zoology.**

Entrance Requirements:
Solid Geometry, Trigonometry, Physics, Chemistry; otherwise as on page 33.

	Units
Chemistry (L.D.).....	13
Zoology (L.D.).....	10
Chemistry } (U.D.).....	18
Zoology }	
Physical Training.....	4
Bible	8
English	
Rhet. and Comp.....	6
Literature	6
French }	*22
German }	
Latin }	
Or an equal amount taken in High School and College.	
Mathematics	3
History	6
Psychology	3
Logic	3
Ethics	3

**Group XI.
Chemistry-Physics.**

Entrance Requirements:
Solid Geometry, Trigonometry, Physics, Chemistry; otherwise as on page 33.

	Units
Chemistry (L.D.).....	13
Physics (L.D.)	12
Chemistry } (U.D.).....	18
Physics }	
Physical Training.....	4
Bible	8
English	
Rhet. and Comp.....	6
Literature	6
French, }	*22
German }	
Latin }	
Or an equal amount taken in High School and Col- lege.	
Mathematics	3
History	6
Psychology	3
Logic	3
Ethics	3

L. D. stands for Lower Division courses.

U. D. stands for Upper Division courses.

*(1) The entire 22 units may be taken either in French or in German. (2) Sixteen units may be taken in French or in German, and 10 units of the other, or of Latin, substituted for the remaining 6. In any one of the three languages two years of admission credit removes 10 units of the requirement, while in French or German the third and fourth years count for 3 units each additional.

Departments of Instruction

Departments of Instruction

Biblical Literature

Professor Kellogg

1. Pentateuch.

The five books of Moses are studied with a view to the mastery of the facts recorded: the creation of the world and of man, the entrance of sin, the beginnings of redemption, of national life, of the covenant people. The Mosaic Law is studied in relation to the "better covenant" to follow.

2 hours, first semester.

2. Historical Books of the Old Testament.

This course is a continuation of course 1, and carries the student through the period of the Conquest, the Commonwealth and into the time of the Kingdom.

2 hours, second semester.

3. Pauline Epistles.

Advanced work is undertaken in synthetic study of the Epistles. Analysis of material and exposition of fundamental Christian truth as held historically by the church is undertaken from the text of the Epistles.

2 hours, second semester.

4. The Prophets.

Representative prophets, both major and minor, are studied with particular reference to the political situation of the times in which they lived. The immediate message and the messianic mes-

sage are discriminated. The prophets were the statesmen of the Theocracy.

2 hours, first semester.

7. Life of Christ.

This study of the Gospels is designed to cover not merely the mechanical outline of the life of our Lord, but deeper teachings of His ministry and message, His death and resurrection.

2 hours, one semester.

8. The Acts and the Earlier Epistles.

The transition from the period covered by the Gospels to the period when by means of Epistles the churches are instructed in mature Christian truth is covered by the Acts. This book and certain of the earlier Epistles are studied with a view to the mastery of facts which are formative in the beginning of church history.

2 hours, one semester.

11. The Poetry of the Bible.

This course involves the study of songs commemorative of deliverance from enemies, the psalms of historical summary, the messianic psalms, and songs of religious experience.

2 hours, one semester.

12. The Bible and Historic Faith.

This course assembles the testimony of the Scriptures on the fundamental teachings of the church in all ages. The doctrines of God, of Man, of Sin and Redemption are studied as they lie imbedded in the Bible records.

2 hours, one semester.

Biology

Professor Esterly

Assistant Professor Cook

ZOOLOGY LOWER DIVISION COURSES

1. Principles of Zoology.

The scope of this course is indicated by the name. Systematic zoology, morphology and physiology are covered, and topics of general interest as well as facts and theories connected with various lines of thought in the science are taken up from time to time. Instruction is by means of lectures and written quizzes and papers upon assigned topics. Though offered as a year course, 3 units of credit will be allowed if the work of the first semester only is completed.

3 hours, throughout the year (6 units).

Professor Esterly.

2. General Zoology.

A laboratory course, in which invertebrate types are studied, and the shark among vertebrates. Course 2 must be taken by all who expect to pursue advanced courses in zoology.

Prerequisite, course 1 or its equivalent completed or in progress.

6 hours, first semester (2 units).

Professor Esterly.

3. General Zoology.

A laboratory course, intended to give some insight into vertebrate embryology, histology and

anatomy. The development of the frog, toad, or salamander is followed, and the salamander and frog, one or both, are used in dissection.

Prerequisite, course 2.

6 hours, second semester (2 units).

Professor Esterly.

7. Field Zoology.

Principally a laboratory or field course, the aim of which is to enable students to become acquainted with the higher vertebrates, especially the birds inhabiting this region. Not given to less than five students, nor more than ten.

Prerequisite, at least Zoology 1.

1 afternoon in the field weekly, second semester (1 unit).

Professor Esterly.

UPPER DIVISION COURSES

4. Anatomy of Vertebrates.

Lectures and laboratory. The course aims to cover the higher vertebrate groups in a comprehensive way. The cat is the principal subject of dissection.

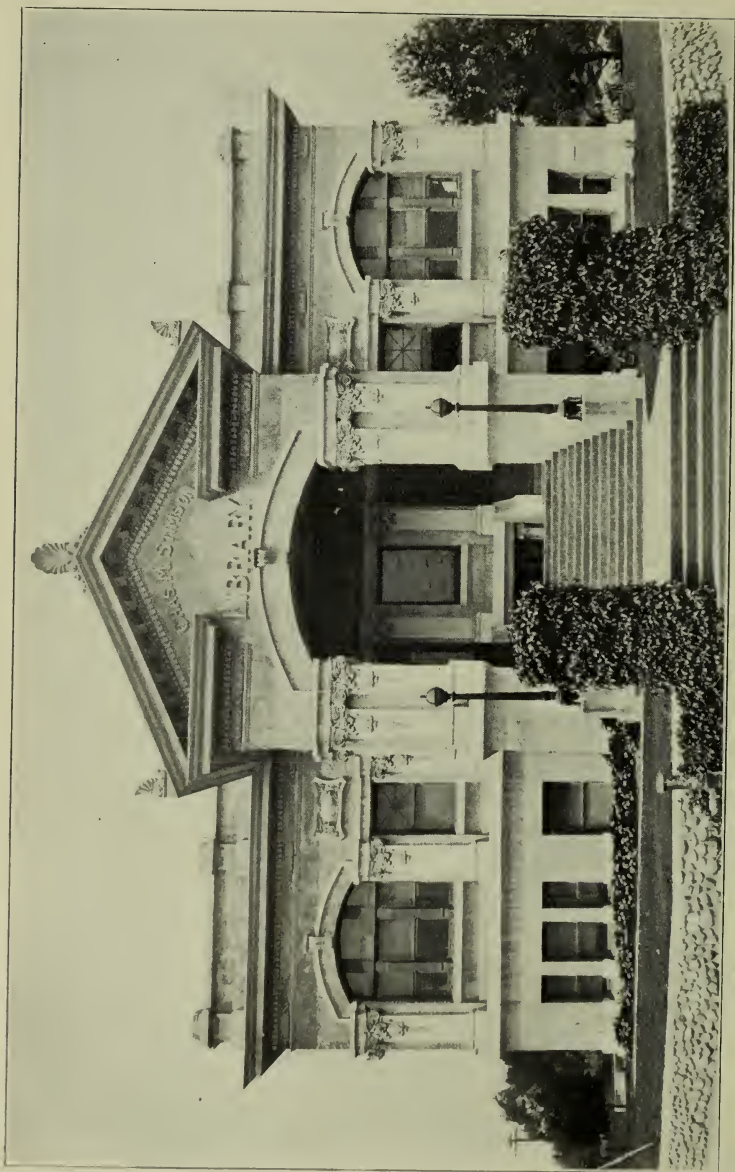
Prerequisite, courses 1, 2 and 3.

6 hours in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Professor Esterly.

5. Cytology and Histology.

Lectures and laboratory. The animal cell is studied in its various phases of activity, and the microscopical anatomy of various tissues and or-



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gans of vertebrates is taken up. There is constant practice in the use of reagents and stains, and in the preparation of mounts and series of sections for the microscope. Not given in the same year with course 6.

Prerequisite, courses 1, 2 and 3.

9 hours in the laboratory and 2 hours of lectures or recitations, second semester (5 units).

Professor Esterly.

6. Embryology.

Lectures and laboratory. The development of vertebrates is studied by means of a text-book supplemented by lectures. There is constant practice in the laboratory in embryological methods, the principal objects of study being the chick and the pig. Not given in the same year with course 5.

Prerequisite, courses 1, 3 and 4.

9 hours in the laboratory and 3 hours of lectures or recitations per week, second semester (6 units).

Professor Esterly.

BOTANY

1. Morphology of Cryptogams.

A progressive study of the lower plants based on the structure of the reproductive organs and processes.

Prerequisite, elementary chemistry.

3 consecutive hours twice a week in the labo-

ratory and 2 hours of lectures or recitations,
first semester (4 units).

Assistant Professor Cook.

2. Flowering Plants.

A study of the structure and physiology of the
higher plants.

Prerequisite, elementary chemistry.

3 consecutive hours twice a week in the labo-
ratory and 2 hours of lectures or recitations,
second semester (4 units).

Assistant Professor Cook.

Chemistry

Professor Chandler

Assistant Warren R. Schoonover

Assistant Day Ehrenfeld

LOWER DIVISION COURSES

A. General Inorganic Chemistry.

Smith's General Chemistry for Colleges, and
Smith and Hale's Laboratory Outline of Gen-
eral Chemistry used.

Open to all students. Those who complete
this course and desire to continue the sub-
ject should consult the head of the depart-
ment.

3 hours of lectures and recitations and 1
three-hour period in the laboratory,
throughout the year (8 units).

1. General Inorganic Chemistry.

Chemical laws and principles and the chemistry of the metals and non-metals, both individually and as related to each other in qualitative analysis. Lectures and recitations. Texts, Smith's General Chemistry for Colleges and Morgan's Qualitative Analysis.

Prerequisite, admission subject 26 or equivalent.

3 hours, throughout the year (6 units).

2. Qualitative Analysis.

General chemical reactions and the separation and identification of the common metallic and non-metallic elements and radicals. To accompany course 1.

6 hours, first semester (2 units).

3. Qualitative Analysis.

A continuation of course 2. Morgan's Qualitative Analysis is used as a manual in courses 2 and 3, which are intended to accompany course 1.

6 hours, second semester (2 units).

4A. Quantitative Analysis.

Simple gravimetric and volumetric determinations. Laboratory work with occasional lectures upon the methods and principles involved.

Prerequisite, course 3.

9 hours, either semester (3 units).

4B. Mineral Analysis.

Quantitative determination of the constitution of rocks and minerals by the methods of gravimetric and volumetric analysis. Talbot's Quan-

titative Analysis is used in courses 4A and 4B.

Prerequisite, course 4A completed or in progress.

9 hours, either semester (3 units).

UPPER DIVISION COURSES

5. Organic Chemistry.

Chemistry of the aliphatic and aromatic compounds. Lectures and recitations.

Prerequisite, course 4A, but may be taken as a Lower Division course, with Course 1 as the only prerequisite.

2 hours, throughout the year (4 units).

6. Organic Chemistry Laboratory.

Preparation and reactions of typical organic compounds. Garrett and Harden's Practical Organic Chemistry used.

Prerequisite, course 5 completed or in progress.

9 hours, either semester, or its equivalent in a year's course (3 units).

7. Elements of Physical Chemistry.

Lectures and recitations covering the elementary principles of physical chemistry.

Prerequisite, course 4A and Physics 2A.

2 hours, throughout the year (4 units).

8. Advanced Chemistry Laboratory.

Special methods in quantitative analysis, including water analysis, gas analysis, electrolytic analysis and assaying; organic and inorganic preparations; physical chemistry measurements. The

student may choose from these subjects and so fit himself for technical or research work.

Prerequisite, course 4B.

9 hours, either or both semesters (3 or 6 units).

Economics and Sociology

Professor Stevenson

Courses 1 and 3 are recommended to students who expect to take only one year's work in this department; but such students may register for courses 1 and 2.

Courses 1 and 2 are intended primarily for Juniors and Seniors, but they are open to Sophomores who expect to take upper division courses in economics.

LOWER DIVISION COURSES.

1. Economics.

An introductory course dealing with essential facts and principles, and prerequisite to all other courses. The text book will be followed in the order of topics and the general manner of treatment; but full and free discussion of controverted points will be required, together with careful reading of standard authorities, and preparation of papers on assigned topics.

3 hours, first semester.

2. Money and Banking.

The fundamental principles of monetary theory, the history and the practice of banking, and dis-

cussion of current problems and legislation.
Text-books, lectures and papers.

Prerequisite, course 1.

3 hours, second semester.

UPPER DIVISION COURSES

History 1 is prerequisite to all upper division courses in this department. Additional prerequisites are stated below.

Two upper division courses are offered each year. Courses 3 and 4, 5, or 7 will be given in 1911-1912.

3. Sociology.

An introduction to sociological theory, with incidental discussion of the practical problems relating to social reforms and with constant reference to the influence of Christianity on the development of modern society. Lectures and assigned readings.

Prerequisite, course 2; but courses 2 and 3 may be taken in the reverse order, in which case 2 will be counted as an upper division course and 1 and 3 as its prerequisite.

3 hours, first semester.

4. Practical Sociology.

The application of sociological principles to charity, criminology, and constructive social work. Lectures, the literature of the subject, and personal investigation. Los Angeles offers ample opportunity for field work in the many institutions and conditions that illustrate nearly every phase of social health and social disease.

Prerequisite, course 3.

3 hours, second semester.

5. Public Finance.

A study of public revenue and expenditure and of financial administration, with especial reference to the principles and practice of taxation in the United States.

Prerequisite, courses 1 and 2.

3 hours, one semester.

6. Modern Industrialism.

A critical study of the problems arising from present industrial conditions—the relation of labor and capital, combinations, etc.—and of current questions of special interest and importance.

Prerequisite, course 5.

3 hours, second semester.

7. Advanced Economics.

A detailed examination of selected subjects treated less fully in course 1. Special attention is given to topics that bear on the relation between the present social order and the distribution of wealth. Text-books and lectures.

Prerequisite, courses 1 and 2.

3 hours, one semester.

Education

Professor Cook

1. History of Education, Earlier Period.

The Biblical idea of education. Educational theory and practice in Greece and Rome, and in the leading nations of Europe during the Middle

Ages. Lectures. Monroe's History of Education. Laurie's Historical Survey of Pre-Christian Education. To alternate with course 2. Open to Juniors and Seniors.

3 hours, first semester.

2. History of Education, Later Period.

Educational theory and practice in the more advanced nations of modern times. Lectures. Monroe's History of Education. Quick's Educational Reformers. Supplementary reading. To alternate with course 1. Open to Juniors and Seniors.

3 hours, first semester.

3. Pedagogy.

Application of ethical principles, and of the sciences of logic, rhetoric, psychology, and physiology to education. The aim will be to give a comprehensive view of the educational process, and to acquaint the student with the best ways and means of promoting physical health and vigor, and of cultivating the senses, intellect, feelings, will and conscience, and the most approved methods of teaching the subjects usually studied in elementary schools. Lectures. Bagley's Educative Process. Harris, Psychologic Foundations. Supplementary reading. To alternate with course 4. Open to Juniors and Seniors.

3 hours, second semester.

4. Philosophy of Education.

The course will include a study of the aim, the meaning, and the individual and social aspects

of education, educational values, the curriculum, correlation of studies, interest, attention, the art of study, qualifications of teachers, method of the recitation, laws of teaching. Lectures. Horne's Philosophy of Education. Henderson's Principles of Education. Supplementary reading. To alternate with course 3. Open to Juniors and Seniors.

3 hours, second semester.

English

Professor Cooper

Associate Professor Odell

Assistant Rosalind J. Chase

LOWER DIVISION COURSES

A. Elementary Composition.

Required of all students who are deficient in elementary English. Counts nothing toward graduation.

1 hours, either semester.

1. Rhetoric and Composition.

Drill in the elements of effective prose. Description and narration, first semester; exposition, second semester. Daily practice in composition. Required in all courses, freshman year.

2 hours, throughout the year (4 units).

Associate Professor Odell.

2. Advanced Composition.

Exposition and argument. Study of models and text. Daily practice in the preparation and presentation of material. Required in all courses.

Prerequisite, course 1.

2 hours, first semester.

Associate Professor Odell.

3. History of the English Language.

Historical English grammar, with illustrative selections from Old and Middle English Literature.

2 hours, second semester.

Associate Professor Odell.

5. Early Nineteenth Century Prose.

Lamb, DeQuincey, Landor, Macaulay. A study of representative works of these writers, with special reference to qualities and varieties of prose style. Designed particularly to fit students for the more advanced courses in literature. Required alternately with course 6. Omitted in 1911-1912.

3 hours, first semester.

Professor Cooper.

6. Victorian Prose Writers.

Carlyle, Ruskin, Arnold, Stevenson. Required alternately with course 5. Omitted in 1910-1911.

3 hours, first semester.

Professor Cooper.

7. Victorian Poets.

Tennyson, Browning, Rossetti, Morris, Swinburne. Emphasis on the elements of poetic form

and poetic criticism. Introductory to more advanced courses in poetry. Required in all courses; sophomore year.

3 hours, second semester.

Professor Cooper.

8. Public Speaking.

Practice in the preparation and delivery of declamations, speeches, orations, and other forms of public address, with some study of the principles of vocal expression.

Prerequisite, course 2.

2 hours, first semester.

Associate Professor Odell.

9. Oral Debate.

Written and oral work. Analysis, brief-making, and debating. The class is divided into two sections, each section debating once a week on a question previously assigned. During the semester every member of the class prepares and presents one forensic.

Prerequisite, course 2.

2 hours, second semester.

Associate Professor Odell.

UPPER DIVISION COURSES

Courses 1, 2 and 7, together with either 5 or 6 are prerequisite to all upper division courses.

11. Early Nineteenth Century Poets.

Wordsworth, Coleridge, Byron, Shelley, Keats. A study of the romantic movement of the early part of the nineteenth century.

3 hours, second semester.

Professor Cooper.

12. Shakespeare.

The principal plays read chronologically, with special attention to the development of Shakespeare's mind and art.

3 hours, first semester.

Professor Cooper.

13. Earlier Nineteenth Century Novelists.

Jane Austen, Scott, Dickens, Thackeray, George Eliot. Given alternately with course 21. Omitted in 1911-1912.

3 hours, first semester.

Professor Cooper.

14. The Short-Story.

A course in Short-Story writing, based on a study of the masterpieces of the art, with special reference to principles of construction.

2 hours, second semester.

Professor Cooper.

15. The Elizabethan Age and the Puritan Period.

A course in the poetry of the period, with emphasis on the work of Spenser and Milton. Given alternately with course 17. Omitted in 1911-1912.

3 hours, first semester.

Professor Cooper.

16. Restoration and Eighteenth Century Literature.

A survey of the leading poets and prose writers from Dryden to Burns, with emphasis on the rise of the romantic school.

3 hours, second semester.

Professor Cooper.

17. Milton.

The study of "Paradise Lost."

2 hours, first semester.

Professor Cooper.

18. Thesis.

In connection with any of the upper division courses, the student may, with the permission of the instructor, write a thesis embodying some piece of research.

1 unit, either semester.

Professor Cooper.

Associate Professor Odell.

19. Anglo-Saxon.

First semester: The outlines of Anglo-Saxon grammar. Bright's Anglo-Saxon Reader is used.

Second semester: Beowulf.

During the year, English literature from the beginning to the Norman Conquest.

3 hours, throughout the year (6 units).

Associate Professor Odell.

20. Chaucer and His Contemporaries.

A detailed literary and linguistic study of a large number of the Canterbury Tales, with some study of Chaucer's contemporaries and his age.

3 hours, second semester.

Associate Professor Odell.

21. Later Nineteenth Century Novelists.

Meredith, Hardy, Stevenson, Howells, Mrs. Humphrey Ward, DeMorgan. Given alternately with course 13. Given in 1911-1912.

3 hours, first semester.

Professor Cooper.

French

Professor Bell

LOWER DIVISION COURSES

1. Elementary.

First semester. Thorough drill in fundamental rules of grammar with daily oral and written exercises. Reading short stories and conversation on text read.

Second semester: Drill on irregular verbs, idioms, elements of syntax. Reading of prose by modern authors. Easy composition. Special attention is given to acquiring a vocabulary. French being a living language, great attention is paid in this and the following courses to correct pronunciation and accentuation.

5 hours, throughout the year (10 units).

2. Modern Prose and Dramatic Writers.

First semester: General review of grammar, dictation in French, written and oral composition. Reading: Short stories by modern authors, at least one modern play. Conversation based upon the texts read.

Second semester: Written and oral composition. Reading: one or two modern plays, modern prose. Written resumés in French and practice in conversation.

Prerequisite, admission subject 21 or course 1.
3 hours, throughout the year (6 units).

UPPER DIVISION COURSES**3. Composition and Classics.**

First semester: Advanced composition. Reading: prose by Sand, Balzac, Rostand and others. Themes and conversation on works read. Sight translation of prose. Classics by Molière, Racine and others.

Second semester: Advanced composition. Reading, History of France conducted in French, with written exercises on assigned topics.

Prerequisite, course 2.

3 hours, throughout the year (6 units).

4. History of French Literature.

This course is intended to give the student ample practice in French conversation while affording a bird's-eye-view of what France has done and is doing in the world of thought. Outside reading of some of the works of certain authors, with written reports, will be required. Difficult composition and a review of grammatical principles will be given from time to time. Not to be given in the same year with course 5.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

5. French Literature in the Nineteenth and Twentieth Centuries.

Lectures, themes and collateral reading. Course conducted in French. Not to be given in the same year with course 4.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

Geology and Mineralogy

Professor Fiske

Assistant White

1. General Geology; Dynamical and Structural.

Lectures and recitations.

Prerequisite, elementary courses in Physiology or General Science or Physics, Chemistry, Botany or Zoology.

3 hours, first semester.

2. General Geology, Historical.

Lectures and recitations.

Prerequisite, course 1.

3 hours, second semester.

3. Field Geology.

This course involves a careful study of the geological condition in and around Highland Park, extending both to the mountains and to the sea; the drift, dip and strike of rock-strata and the various processes now at work to change the surface of the land. The work includes the construction of topographical maps of the region, plottings of the course and gradient of streams and sectional maps of the out-crop of strata in more specific cases. Students are required to present reports showing the results of their observations in the field, while photographs of field observations, lantern slides, maps, diagrams, etc., are used extensively in class room work. This course to accompany course 1.

3 hours, first semester (1 unit).

4. General Paleontology.

The work of this course is conducted both in the field and laboratory, and is accompanied by occasional lectures and recitations. It involves a study and plotting of the different geological horizons; the development of life on the earth from its beginning to the present; the geological and geographical relationship of the various fossil forms, both of plants and animals, together with the characteristic and dominant species of the different divisions of geological time. Constant use is made of the College collection of fossils, while occasional excursions are made to fossil-bearing regions for the purpose of studying them as they occur in the earth. This course to accompany course 2.

3 hours, second semester (1 unit).

5. Mineralogy, Physical and Descriptive.

Lectures and laboratory. The course involves a study of elementary crystallography, the physical and chemical characters of minerals, a microscopical study of mineral sections and the descriptive study of typical minerals found in the College collection. It also involves a careful preparation of mineral and rock sections and the use of the polarizing microscope. The object is to familiarize the student with the common minerals about him and to enable him to recognize them on coming in contact with them in the field.

Prerequisite, elementary course in chemistry.

1 hour lecture and recitation and 3 hours laboratory, first semester (2 units).

6. Mineralogy, Determinative and Economic.

Lectures and laboratory. The lectures of this course involve a study of the origin, characteristics and distribution of metalliferous veins; the useful metals, their occurrence, relation to each other and the processes employed in obtaining them from their ores; as well as the occurrence, preparation and uses of numerous products of commercial importance, such as the common fuels, marbles, slates, clays, borax and salt. The time in the laboratory is devoted to the determination and classification of unknown mineral species, many of which are picked up by the student either on special excursions or in his daily walks.

Prerequisite, course 1 or its equivalent.

1 hour lecture and recitation and 3 hours laboratory, second semester (2 units).

The work in geology and mineralogy extends through the year, during which time special attention is given to the reading of current geological literature, while each semester a carefully prepared paper on some historical or economic subject is required of the student.

German

Professor Moll

LOWER DIVISION COURSES**1. Elementary German.**

The essentials of grammar; drill in pronunciation; practice in speaking and writing German; dic-

tation and translation at hearing; reading at sight; reading of short, interesting stories.

5 hours throughout the year (10 units).

2. Modern Prose and Poetry.

Selection from modern prose writers, poems and a drama from either Lessing or Schiller; composition and conversation.

Prerequisite, admission subject 18 or course 1.

3 hours, throughout the year (6 units).

UPPER DIVISION COURSES

3. The Classical Writers of the Eighteenth Century.

Dramas of Lessing, Schiller and Goethe; Lyrics and ballads of Schiller and Goethe. Composition and conversation.

Prerequisite, course 2.

3 hours, throughout the year (6 units).

5. The Drama of the Nineteenth Century.

Selected dramas of Kleist, Grillparzer, Hebbel, Hauptman, Suderman, and others. Advanced composition. To alternate with course 6. Omitted in 1911-1912.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

6. The Novel of the Nineteenth Century.

Representative novels of Hauff, Freytag, Spielhagen, Heyse, Keller, and others. Advanced composition. To alternate with course 5. Given in 1911-1912.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

Greek

Professor Higgins

Students may enter this department with three years of preparatory Greek, with two years or with none. It is possible for the last-named to make Greek the minor subject of their group, but not the major.

LOWER DIVISION COURSES

A. Elementary.

(a) Beginning Book, Goodwin's Grammar.

(b) Xenophon's Anabasis I.-IV., with sight reading in the Gospel of John (White).

This course aims to cover thoroughly the work of the first two years of preparatory Greek and is intended for those who enter without matriculation credit in the subject.

5 hours, throughout the year (10 units).

B. Lysias and Homer.

(a) Easy selections from Lysias, or an equivalent.

(b) Homer's Iliad I.-III. Metrics.

Prerequisite, admission subject 16 or course A.

3 hours, throughout the year (6 units).

1. Homer.

Iliad. A critical study of selections from Books IX.-XXIV., amounting to six books. Frequent sight tests. Essays on Homeric topics.

Prerequisite, admission subject 17 or course B.

3 hours, first semester.

2. Plato.

Apology and Crito, Phaedo. Next to an accurate understanding of the text of Plato, attention is given to the life and teachings of Socrates.

Prerequisite, course 1.

3 hours, second semester.

3. Euripides.

Iphigenia among the Taurians, and Alcestis. An introduction to Greek tragedy. Study of meters. Lectures on the Greek drama.

Prerequisite, course 2.

3 hours, first semester.

4. Thucydides, Demosthenes.

Thucydides Book VII. Demosthenes, Philip-pics. Introduction to two important periods of Greek history. Collateral reading.

Prerequisite, course 3.

3 hours, second semester.

7. Greek Life and Literature.

A course of lectures on Greek life and literature, supplemented by required reading, reports and written tests. A History of Greek Literature will be used. A knowledge of Greek is desirable but not required.

Open to all students.

2 hours, first semester or both.

8. Prose Composition.

Murray. For those preparing to teach Greek in the high schools of California, this course is essential. It should follow course 3.

2 hours, second semester.

UPPER DIVISION COURSES

Prerequisite, courses 1, 2 and 3, to which it is better to add 4. Two upper division courses are offered each year.

11. Plato.

Republic. Selections equivalent in amount to the Gorgias. A course valuable not only for students specializing in Greek, but for those pursuing ethics, sociology or education as well. The place of Plato in Greek philosophy.

3 hours, first semester.

12. Lyric Poets.

Selected. Development of the lyric. Lyric meters.

3 hours, second semester.

13. Herodotus.

Books VII. and VIII. Close study of contemporary history. Stylistic and dialect study.

3 hours, first semester.

14. Aeschylus, Sophocles.

Aeschylus: Prometheus or Agamemnon. Sophocles: Oedipus the King or Antigone. The place of Aeschylus and Sophocles in the Greek drama.

3 hours, second semester.

15. Aristophanes.

Clouds, Frogs. Contrast between Greek comedy and tragedy. Comedy as a mirror of the times.

3 hours, first semester.

16. Odyssey.

First twelve books. Special study of Greek mythology. Contrast between the Odyssey and the Iliad. Literary influence of Homer.

3 hours, second semester.

History

Professor Cunningham

LOWER DIVISION COURSES

1A. History of England.

A general view of the political history of England to 1603. Special study of English constitutional history.

3 hours, first semester.

1B. History of England.

A general view of the political history of England from the seventeenth to the twentieth century. Special study of Imperial England.

3 hours, second semester.

2A. History of Western Europe.

A survey of the history of Western Europe to the sixteenth century. Special study of civilization during the Middle Ages.

3 hours, first semester.

2B. The Renaissance and Reformation.

The Renaissance: A study of the transition from medieval to modern thought. The Reformation: A study of the Protestant reformation in Northern Europe.

3 hours, second semester.

UPPER DIVISION COURSES

Courses 1 and 2 are prerequisite to all upper division courses in history. 5A and 5B are given in alternate years with 6A and 6B.

3. History of Greece.

A study of the history of Greece in which special emphasis is laid on the ages of Pericles and Demosthenes.

3 hours, first semester.

4. History of Rome.

A general survey of the history of Rome to the death of Caesar. Special study of the development of the constitution and the growth of Caesarism.

3 hours, second semester.

5A. American History 1492-1783.

Beginning of the American nation: the European inheritance. American colonial history: growth of colonial institutions. Causes of the Revolution: growth of independence.

3 hours, first semester.

5B. American History from 1783.

A study of national development; the government, the expansion, and the development of the United States.

Additional prerequisite, course 5A.

3 hours, second semester.

6A. Modern European History.

A general survey of the history of Europe in the eighteenth century. Special study of the French

Revolution and the Napoleonic era. Omitted in 1911-1912.

3 hours, first semester.

5B. Modern European History.

A general survey of the history of Europe in the nineteenth century. Special study of the national leaders and social reforms. Omitted in 1911-1912.

3 hours, second semester.

Latin

Professor Ward

LOWER DIVISION COURSES

A. Elementary.

Beginner's Book. Caesar's Gallic War, Books I.-IV. Prose composition. Intended for those who lack the minimum requirement in Latin for the A.B. degree.

5 hours, throughout the year (10 units).

1. Livy.

The larger portion of books XXI. and XXII. is read, with particular attention to the syntax and Livy's qualities as a writer and historian. Collateral reading on the history of the period.

Prerequisite, admission subjects 14 and 15.

3 hours, first semester.

2. Horace and Cicero.

Horace: Odes and Epodes. Cicero: De Amicitia or De Senectute. Lyric meters. Political

conditions at the beginning of the empire.

Prerequisite, course 1.

3 hours, second semester.

3. Plautus and Terence.

Plautus: Captivi and Trinummus. Terence: Phormio. Meters, early forms and constructions, Roman and Greek life.

Prerequisite, course 2.

3 hours, first semester.

4. Tacitus and Pliny.

Tacitus: Agricola and Germania. Pliny the younger: selected letters. Investigation of social and political conditions under the empire.

Prerequisite, course 3.

3 hours, second semester.

5. Prose Composition I.

For those preparing to teach Latin in the high schools of California, this and the following course are essential.

Prerequisite, admission subjects 14 and 15.

2 hours, first semester.

6. Prose Composition II.

Prerequisite, course 5.

2 hours, second semester.

UPPER DIVISION COURSES

Course 4 is the common prerequisite for all upper division courses in this department. Two of these besides 13 are offered each year. 7 and 11 will be given in 1911-1912. An additional prerequisite to course 13 is course 6.

7. **Horace and Juvenal.**

Horace: Satires and Epistles. Juvenal: selected Satires.

3 hours, one semester.

8. **Tacitus.**

Selections from the Annals. Collateral studies in the history of the empire.

3 hours, one semester.

9. **Lucretius.**

De Rerum Natura: Books I., III. and V., with extended sight reading in the other three books. The Epicurean system and its poetic treatment at the hands of Lucretius.

3 hours, one semester.

10. **Seneca.**

Moral essays, accompanied by a close examination of Stoicism as a creed and of its influence upon Roman life.

3 hours, one semester.

11. **Catullus, Tibullus and Propertius.**

Selections. Influence of Alexandrinism. Roman morals. Literary coteries of the times.

3 hours, one semester.

12. **Roman Comedy.**

Plautus: Rudens and Mostellaria. Terence: Andria and Adelphi. Lectures on the Roman Drama.

3 hours, one semester.

13. **Prose Composition III.**

2 hours, one semester.

15. Seneca.

Tragedies: Hercules Furens, Troades, Medea. Comparison with the masters of Greek tragedy, particularly Euripides. Seneca's handling of Greek meters and mythology.

3 hours, one semester.

Mathematics and Astronomy

Professor Allen

MATHEMATICS LOWER DIVISION COURSES

A. Solid Geometry.

The properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids and the regular solids, of cylinders, cones and spheres, of spherical triangles, and the measurement of surfaces and solids.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

B. Plane and Spherical Trigonometry.

The development of the general formulae of trigonometry. The theory and use of logarithms. The application of trigonometry to numerous problems in plane and spherical mensuration.

Prerequisite, admission subjects 4 and *6.

3 hours, one semester.

1. College Algebra.

This course includes the development and application of the binominal theorem and of the exponential and logarithmic series, permutations and combinations, and the theory of equations.

Prerequisite, admission subjects 4 and 6.

3 hours, first semester.

3. Plane Analytics.

A study of analytic methods, the analytic geometry of the straight line, the circle, and the conic sections, and investigation of the general equation of the second degree.

Prerequisite, admission subject 8 or course B.

3 hours, second semester.

4. Differential Calculus.

The principles and formulae of differential calculus, and the application to such problems as maxima and minima, indeterminate forms, expansion of series, etc.

Prerequisite, courses 1 and 3.

3 hours, first semester.

10. Surveying.

The department is equipped with a transit, Y level, Gunter's chain, steel tape, leveling rod, planimeter, slide rules, highly graduated protractor, parallel rules, etc. The principles of land surveying, irrigation, and railroad engineering will engage the attention of the class in actual

field work, and the reduction of the field notes to plots drawn to scale.

Prerequisite, courses A and B.

3 hours, second semester.

UPPER DIVISION COURSES

The following will be ranked as Upper Division courses only when preceded by course 4. Astronomy 2 and Physics 3 may be counted as Upper Division courses in Mathematics if preceded by Mathematics 4.

6. Integral Calculus.

The principles and formulae of integral calculus, with application to problems in integration, such as lengths of curves, areas, volumes, etc.

Prerequisite, course 4.

3 hours, second semester.

8. Theory of Equations.

The theory of determinants; the theory, analysis, and solution of higher numerical and algebraic equations. Omitted in 1910-1911.

Prerequisite, courses B and 1.

3 hours, first semester.

9. Higher Analytics.

A more advanced course than course 3, including a study of higher plane curves and the elements of solid analytic geometry.

Prerequisite, course 3.

3 hours, first semester.

ASTRONOMY

1. General Astronomy.

A course in descriptive astronomy. Simple problems and questions, involving the fundamental principles of astronomy. Study of nebulae, planets, and constellations, with the telescope.

Prerequisite, admission subject 8 or Mathematics B.

3 hours, first semester.

2. Practical Astronomy.

Lectures and observatory work. The determination of time, latitude, and longitude, and the computation of current eclipses and occultation of stars.

Prerequisite, admission subject 7, Mathematics 3, Astronomy 1.

3 hours, second semester.

Mechanical Drawing

Instructor Westcott

The courses cover such fundamental principles of Mechanical Drawing as are essential to the student pursuing science and engineering courses. They prepare for advanced courses in design, especially along architectural and mechanical engineering lines. Advanced work in any branch of the subject may be arranged in particular cases upon

consultation. Work in course 3 must begin with the first semester; in other courses with either.

1. Instrumental Drawing.

(a). Linear drawing, freehand lettering, geometrical problems and constructions, mathematical curves.

(b) Mathematical curves continued, elementary principles of projection in the third quadrant, helical curves. Applied projection.

Open to all students.

3 hours, throughout the year (2 units).

2. Orthographic Projection.

(a) Problems in projection, intersection of solids, development of surfaces.

(b). Application of the foregoing principles to working drawings, isometric projection, shop sketching. This course is suitable for those who desire a working knowledge of mechanical drawing but who may not find it desirable to take the more extended course in Descriptive Geometry.

Prerequisite, course 1.

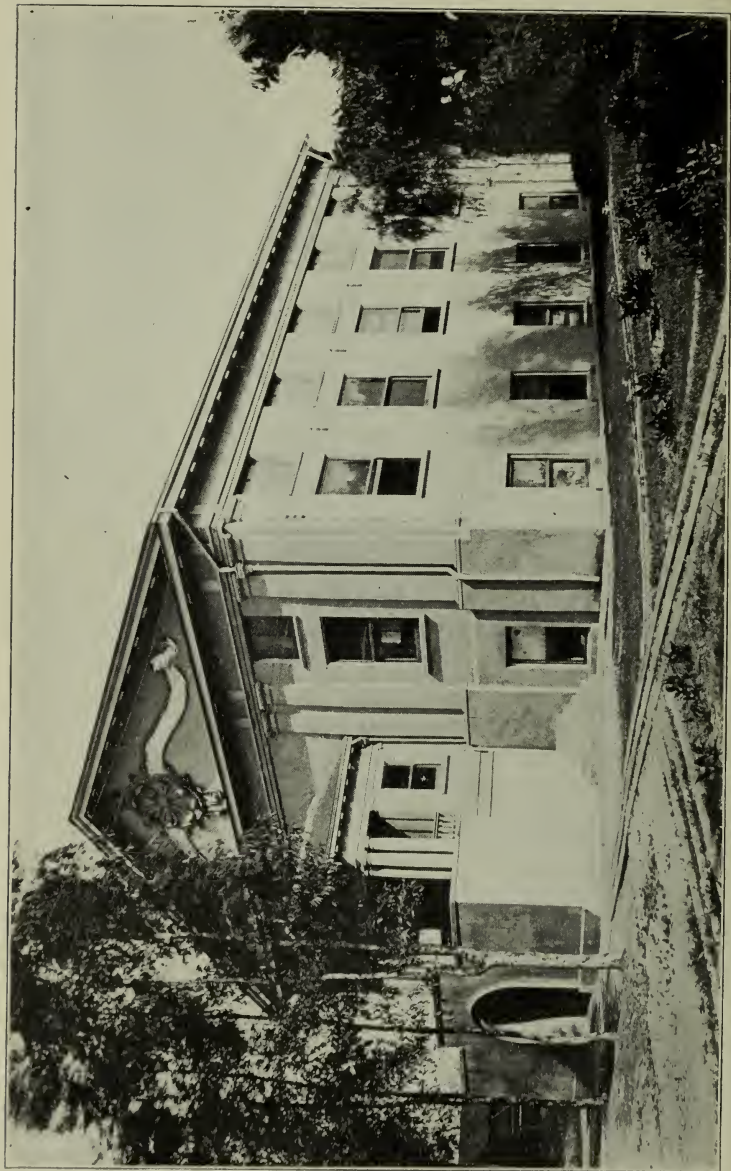
3 hours, throughout the year (2 units).

3. Descriptive Geometry.

(a). Basic principles, problems on point, line and plane, curved surfaces, sections, intersections.

(b). Shades, shadows and perspective.

The course involves the study and discussion of the elements of drawing from the theoretical side. The problems are adapted to stimulate analytical and constructive thinking. Many are



THE GYMNASIUM

so chosen as to show the application of theory to the practical work of the engineer and draftsman. From one to three hours per week are devoted to recitation or lectures, the balance to work at the drawing board.

Prerequisite, course 1 and Mathematics A.

6 hours, throughout the year (4 units).

4. Machine Drawing.

Machine details, bolts and nuts, screw threads, machine movements, cam, lever and link, spur and bevel gears. Complete shop drawings of machines, assembly drawings, tracings, blue prints, titles.

Prerequisite, course 2 or 3.

3 hours, throughout the year (2 units).

5. Architectural Drawing.

A course familiarizing the student with the technical terms used in architectural practice and building construction, the purpose and principles of detail, plan drawing and architectural rendering. The details of the work done may be varied to suit the special needs of the student, the object being to provide a thorough foundation of elementary knowledge in the subject upon which to base advanced work. The classroom work is supplemented by lectures on drafting room practice, visits to the office of some architect and the inspection of buildings under construction.

Prerequisite, course 2 or 3.

3 hours, throughout the year (2 units).

6. Statics—Graphic and Algebraic.

The analysis of statical problems by both graphic and algebraic methods, showing the relation of the two and their relative advantages and disadvantages. The problems advance from simple forms of composition and resolution of forces to the complex application of those principles in the determination of strains in frames such as bridge and roof trusses in their various forms, girders, the cantilever, etc.

Prerequisite, course 1 and Mathematics B.

3 hours, throughout the year (2 units).

Philosophy

Professor Burt

1. Psychology.

This course is a study of the most general elementary and developed forms of consciousness. Ladd or equivalent is used for text. A required subject. Given to Juniors the first semester in 1911-1912; open to Sophomores the second semester of the same year, and regularly thereafter.

3 hours, second semester.

2. Logic.

The principles of Deductive and Inductive Logic are studied and applied in practical work. The purpose is to so familiarize the student with the laws of thought that they be made of practical advantage. Required of Juniors.

3 hours, second semester.

3. Ethics.

The philosophy of the moral life is studied from the historical, psychological, philosophical and sociological aspects. Mackenzie or equivalent used as text. Required of Seniors.

3 hours, first semester.

4A. History of Ancient Philosophy.

An examination of the thought of the Greek period with special emphasis upon the systems of Plato and Aristotle. Junior-Senior elective.

3 hours, first semester.

4B. History of Modern Philosophy.

An examination of the principal systems of modern thought from Bruno to the present day. Junior-Senior elective.

3 hours, second semester.

5. Theism.

A study of the theistic arguments together with an examination of the anti-theistic theories. Junior-Senior elective.

3 hours, second semester.

6. Comparative Religion.

A study of the great religions of the world, emphasizing the divine origin and the transcendent value of Christianity as the only religion for the world.

2 hours, first semester.

Physical Training

George W. Braden, Director

This department is concerned with the health and physical development of the students. The importance of right habits of exercise, diet, dress, bathing, rest and recreation, is emphasized. Medical and physical examinations are required of all students on entering the College. Abnormal tendencies are noted and medical attention advised when necessary. Students having organic heart trouble or any other weakness which would make it dangerous for them to indulge in vigorous exercise are prevented from taking part in athletic competition or heavy gymnastics.

1. For Men.

The instruction includes calisthenics with dumb bells, light and heavy work on side horse, parallel bars, horizontal bar, ladder and mats, gymnastic games and athletics. As largely as possible the work is adapted to individual needs. The exercises are of the hygienic type rather than those requiring a great amount of skill. Movements which are safe, easy and beneficial, are used in the general work. Those who differ in muscular co-ordination are placed in separate squads under a leader and given exercises adapted to their needs. The physiological effect of an exercise is considered rather than grace of movement. Those who have acquired considerable strength and skill are permitted to join the

squad-leaders' class. Instruction in the leaders' class includes advanced exercise in heavy apparatus, wrestling, boxing and tumbling. Required of the young men.

2 hours, through the Freshman and Sophomore years (4 units).

2. For Women.

The instruction includes marching, maze running, fancy steps, calisthenics with and without such movable hand apparatus as dumb bells, wands and Indian clubs, light apparatus work, and recreative games, such as volley ball, basket ball, medicine ball, three deep, etc. The exercises are adapted to individual needs, and are both corrective and hygienic. Exercises liable to cause strain or nervous exhaustion are avoided. Movements requiring a considerable amount of co-ordinating ability are taken up gradually. The leaders' class provides opportunity for advanced pupils to receive special instruction. The regulation costume is black bloomers and blouse trimmed in orange, and white tennis shoes. Required of the young women.

2 hours, through the Freshman and Sophomore years (4 units).

Physics

Professor Adams
Assistant Professor Fiske
Assistant R. H. Annin
Assistant H. T. Blount
Assistant Harold Hopkins

LOWER DIVISION COURSES

A. Elementary Physics.

This course is intended for those who, not having presented Physics for admission, desire some acquaintance with the subject matter and methods of the science. The course emphasizes the experimental and practical aspects of the subject.

2 hours of lectures and recitations and 1 three-hour laboratory period, throughout the year (6 units).

1. General Physics.

A systematic development of the fundamental ideas and principles of physics is the aim of this course. The lectures include both elementary mathematical treatments and full experimental demonstrations. Crew's "General Physics," supplemented by Sabine's Laboratory Manual, is used as a text-book. The laboratory work includes such measurements as the moment of inertia of an irregular body, G by the coincidence pendulum, surface tension of liquids, density by Nicholson's hydrometer, pitch by the monochord,

speed of sound in brass by Kundt's tube, specific heat by the steam calorimeter, mechanical equivalent of heat by Pye's apparatus and by the electrical method, **H** by the magnetometer and the magnetic pendulum, electro-chemical equivalent of copper by the tangent galvanometer, wavelength of light by Newton's rings.

Prerequisite, admission subjects 8 and 25.

3 hours of lectures and recitations and 1 three-hour laboratory period, throughout the year (8 units).

2A. Optical Measurements.

In this course the theories of geometrical and physical optics are developed, and are verified by exact measurements in the laboratory. Edser's "Light" is the text-book. The optical laboratory is equipped with a spectrometer, a Pulfrich refractometer, a Michelson interferometer, a Lummer-Brodhun photometer, a saccharimeter, and optical benches with apparatus for work in diffraction and in polarized light.

Prerequisite, course 1. Mathematics 4 must precede or accompany.

3 hours of lectures and recitations and 1 three-hour laboratory period, first semester (4 units).

UPPER DIVISION COURSES

2B. Electrical Measurements.

The laboratory work of this course includes a measurement of resistance in absolute units by Lorenz's method; comparison of resistances by

various forms of the Wheatstone bridge, viz.: Carey Foster's, Kohlrausch's, Hartmann and Braun's, and Thomson's; the calibration of a ballistic galvanometer; measurement of capacity by the ballistic galvanometer; measurements of self-inductance and of mutual inductance; measurements on alternating-current circuits containing capacity and inductance. The lectures deal with the theory of the methods employed and with industrial applications. Hadley's "Magnetism and Electricity" is the text-book.

Prerequisite, course 2A and Mathematics 4. Mathematics 6 must precede or accompany.

3 hours of lectures and recitations and 1 three-hour laboratory period, second semester (4 units).

3. Analytical Mechanics.

This course gives a comprehensive survey of both statics and dynamics, following Hoskins's "Theoretical Mechanics." It is intended for Juniors who have taken calculus, but Sophomores who are taking calculus at the same time may be admitted by consent of the instructor. Omitted in 1911-1912.

Prerequisite, course 1, with Mathematics 4 and 6 completed or in progress.

5 hours of lectures and recitations, throughout the year (10 units).

4A. Thermodynamics.

The relations between heat and other forms of energy are discussed in this course. Instruction will be by lectures and prescribed reading.

Prerequisite, course 1 and Mathematics 4 and 6.
3 hours, first semester.

4B. The Electron Theory.

The last few years have witnessed discoveries which are rapidly leading to a unitary view of the whole subject of electricity, under the name of the "Electron Theory." These discoveries are taken up and interpreted in this course. The lectures will be supplemented by outside reading.

Prerequisite, courses 1 and 2, and Mathematics 4 and 6.

3 hours, second semester.

Spanish

Professor Bell

1. Elementary.

Hill's and Ford's Spanish Grammar. Reading of short and easy stories and plays. Doce Cuentos Escogidos: Alarcón, El Capitan Veneno: Valera, El Pájaro Verde; Galdós, Marianela. Composition and Conversation.

4 hours, throughout the year (8 units).

2. The Modern Novel and Drama.

Galdós, Doña Perfecta; Valdes, La Hermana San Sulpicio; Valera, El Comendador Mendoza; Pereda, Pedro Sanchez; Echegaray, El Gran Galeoto. Advanced grammar and composition.

Prerequisite, admission subject 24 or course 1.

3 hours, throughout the year (6 units).

Schedule

Schedule of Lectures and Recitations

The names and numbers of courses correspond with those found under "Departments of Instruction," pages 61 to 105, the added Roman numerals referring to sections of classes.

Recitation periods are indicated by figures, in the vertical columns, as follows:

- 1 begins at 8:30 a. m.
- 2 begins at 9:25 a. m.
- 3 begins at 10:20 a. m.
- 4 begins at 11:35 a. m.
- 5 begins at 1:10 p. m.
- 6 begins at 2:05 p. m.

L means a laboratory period, which in every case begins at 1:10 p. m. and ends at 4.

Courses not scheduled will have their hours arranged when the classes are formed.

Chapel exercises are held daily at 11:15 a. m.

First Semester						Second Semester				
M	T	W	T	F		M	T	W	T	F
1		1		1	Astronomy 1.....					
					Astronomy 2.....					
	3		3		Bible 1 I.....					
	5		5		Bible 1 II.....					
4			4		Bible 1 III.....					
					Bible 2 I.....	6			5	
					Bible 2 II.....	3				3
					Bible 3.....		2		2	
3				3	Bible 4.....					
		5		5	Bible Elective.....			5		5
	3		L	2	Botany 1.....					
			L		Botany 2.....		3		L	2
										L
3		2	L	3	Chemistry A I.....	3		3	L	3
3		2		3	Chemistry A II.....	3		3		3
			L	L						L

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First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
3		3		3	Chemistry 1.....	3		3		3
	L	L			Chemistry 2.....					
					Chemistry 3.....		L	L		
L			L	L	Chemistry 4.....	L			L	L
					Chemistry 5.....					
L			L	L	Chemistry 6.....	L			L	L
					Chemistry 7.....					
L			L	L	Chemistry 8.....	L			L	L
					Drawing 1.....					
					Drawing 2.....					
L			L		Drawing 3.....	L			L	
					Drawing 4.....					
					Drawing 5.....					
					Drawing 6.....					
	3		3	2	Economics 1.....					
					Economics 2.....		3		3	2
6	5		5		Economics 3.....					
					Economics 4.....	6	5		5	
1		1		1	Education 1.....					
					Education 4.....	1		1		1
				2	English A.....					2
	2		2		English 1 I.....		2		2	
4			4		English 1 II.....	4			4	
		5		5	English 1 III.....			5		5
6			5		English 2 I.....					
3				3	English 2 II.....					
					English 3.....	6			5	
2	2		2		English 6.....					
					English 7.....	2	2		2	
	5			6	English 8.....					

OCCIDENTAL COLLEGE

First Semester					Second Semester					
M	T	W	T	F		M	T	W	T	F
					English 9.....		5			6
					English 11.....	3		3		3
3		3		3	English 12.....					
					English 14.....	5		5		
					English 16.....		3		3	2
5		5			English 17.....					
	6	6	6		English 19.....		6	6	6	
					English 20.....	3		3		3
	3		3	2	English 21.....					
1	1	1	1	1	French 1.....	1	1	1	1	1
4		4	4		French 2.....	4		4	4	
6	5		5		French 3.....	6	5		5	
	6	6	6		French 4.....		6	6	6	
3		3		3	Geology 1.....					
					Geology 2.....	3		3		3
		L			Geology 3.....					
					Geology 4.....			L		
	L	2			Geology 5.....					
					Geology 6.....		L	2		
1	1	1	1	1	German 1.....	1	1	1	1	1
	3		3	2	German 2.....		3		3	2
	6	6	6		German 3.....		6	6	6	
6	5		5		German 6.....	6	5		5	
1	1	1	1	1	Greek A.....	1	1	1	1	1
					Greek B.....					
					Greek 1.....					
					Greek 2.....					
					Greek 3.....					
					Greek 4.....					
4			4		Greek 7.....	4			4	

SCHEDULE

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First Semester					Second Semester					
M	T	W	T	F		M	T	W	T	F
					Greek 8.....					
					Greek Upper Div.....					
4		4	4		History 1.....	4		4	4	
3		3		3	History 2.....	3		3		3
	3		3	2	History 3.....					
					History 4.....		3		3	2
5		5		5	History 5.....	5		5		5
1	1	1	1	1	Latin A.....	1	1	1	1	1
3		3		3	Latin 1.....					
					Latin 2.....	3		3		3
4		4	4		Latin 3.....					
					Latin 4.....	4		4	4	
					Latin 5.....					
					Latin 6.....					
6	5		5		Latin 7.....					
					Latin 11.....	6	5		5	
					Mathematics A.....	2	2		2	
3		3		3	Mathematics B I.....					
2	2		2		Mathematics B II.....					
4		4	4		Mathematics 1.....					
					Mathematics 3.....	4		4	4	
	3		3	2	Mathematics 4.....					
					Mathematics 6.....		3		3	2
2	2		2		Mathematics 8.....					
					Mathematics 10.....	1		1		1
	1	2	1		Philosophy 1.....	1		1		1
					Philosophy 2.....		1	2	1	
2	2		2		Philosophy 3.....					
	3		3	2	Philosophy 4.....		3		3	2
					Philosophy 5.....	2	2		2	

First Semester						Second Semester				
M	T	W	T	F		M	T	W	T	F
		1		1	Philosophy 6.....					
					Physical Training.....					
2			2		Physics A I.....	2			2	
			L						L	
2			2	L	Physics A II.....	2			2	L
2						2				
L	2		2		Physics 1.....	L	2		2	
4		4	4		Physics 2.....	4		4	4	
		L						L		
					Physics 4.....					
2	2	2	2		Spanish 1.....	2	2	2	2	
4		4	4		Spanish 2.....	4		4	4	
1		1		1	Zoology 1.....	1		1		1
	L	L			Zoology 2.....					
					Zoology 3.....		L	L		
3	L	L		3	Zoology 4.....					
						3				
					Zoology 5 or 6.....	L	L	L		3
					Zoology 7.....				L	

General Information

General Information

Registration and College Credits

Registration. On the appointed registration days at the opening of each semester, each student must obtain a registration card at the Registrar's office. This card, properly filled out, must be filed with the Registrar not later than the first Friday of the semester. Students failing to register before that time will pay a registration fee of two dollars. The tuition fee must be paid or its payment arranged for with the Business Manager at the time of registration. A certificate of moral character is required of each applicant for admission.

Enrollment in Classes. A student desiring to enter any class must present to the instructor a certificate of registration for that class. No one will receive college credit for any course for which he has not duly registered.

Change of Subjects. Students desiring to change from one subject to another after the opening of the semester must present to the classification committee a written petition not later than one month after the beginning of the semester.

Change from one Group to Another. Students desiring to change from one group to another may do so with the approval of the departments concerned and with the permission of the classification committee, ordinarily not later than the beginning of the Junior year.

Amount of Work. Nineteen unit-hours for Freshmen and Sophomores, and seventeen for Juniors and Seniors, constitute the maximum amount of work for which a student is permitted to register. Twelve unit-hours constitute the minimum. A student incurring a condition or failure will be limited to fifteen unit-hours during the semester following.

Marking System. Scholarship grades are indicated by letters, as follows: "A" represents marked excellence; "B," thoroughly satisfactory; "C," fair; "D," just passing; "d" means a condition; "da," a condition to be removed by examination; "db," a condition to be removed by completing unfinished work; "f" is a failure.

Conditions and Failures. A student incurring a failure in any course will be required to re-register for that course before he can receive credit for the subject. A condition incurred in any course becomes a failure unless removed within one year under the direction of the instructor.

Classification. The class in which a student is to be ranked is determined by the following scale of credits, each figure being the minimum for conditioned standing in the class named:

Freshman— $13\frac{1}{2}$ units of accepted high school credit.

Sophomore—26 units (net) of college credit.

Junior—60 college units, all entrance conditions removed.

Senior—94 college units, all entrance conditions removed.

Attendance

The College requires of all students regular attendance at the chapel service and at all the classes to which they belong. A copy of the rules governing attendance may be obtained from the Dean

Honors

CLASS HONORS

First Honors are awarded on commencement day to those members of each of the four classes whose credits for the year's work reach the average of two-thirds A's and one-third B's.

Second Honors are awarded to those whose credits for the year's work reach the average of one-third A's and two-thirds B's.

To be eligible to either of these honors, one must have at the end of the year:

- a. All entrance conditions removed.
- b. No failures or unremoved conditions on the year's record.
- c. At least 24 units of college credit earned during the year.
- d. Rank in the next class.

FINAL HONORS

On the same basis as above, Final Honors will be awarded to those members of the graduating class, beginning with 1911, who have won Class Honors each of the four years of their course, or whose average for the four years equals the average required for Class Honors.

Students from other institutions, entering Occidental not later than the beginning of the Junior year, will be eligible to Final Honors, provided, in the judgment of the Committee on Classification, their record for the preceding part of their course equals the standard named above.

VALEDICTORY AND SALUTATORY

The rank of Valedictorian is awarded to that member of each graduating class who stands highest in scholarship average for the entire course.

The rank of Salutatorian is awarded to that member of each graduating class who stands second in scholarship average for the entire course.

Students from other institutions entering Occidental later than the beginning of the Junior year are not eligible to these honors.

Oratorical and Debating Contests

Intercollegiate Oratorical Contest. An oratorical contest between the colleges of Southern California is held annually. The preliminary contest at Occidental College is in charge of the students' Oratorical Association. The winner in this contest receives a prize, and represents the College in the Intercollegiate Contest between the University of Southern California, Pomona College and Occidental College. In the last home contest, the first prize was won by Mr. Leslie L. Boyd, and the second by Mr. Harold J. White.

Oratorical Contest of the Prohibition League.

Each year an oratorical contest is held under the auspices of the Students' Prohibition League, which is a branch of the Intercollegiate Prohibition Association. The subjects discussed are connected with the work of temperance reform. Two prizes, of \$15 and \$10, respectively, were offered to the winners of this contest for the first time in 1911 by The Temperance Committee of the General Assembly of the Presbyterian Church, in the U.S.A., the first being won by Mr. C. H. Gaskell and the second by Mr. Fred M. Johnson. These prizes are to be presented annually hereafter, by the same committee.

Intercollegiate Debating Contest. An annual debating contest is held each year between representatives of Pomona and Occidental, three men being chosen from each college after a series of preliminary try-outs. The sixth contest in this series was held at Occidental College, in December, 1910, and was won by the Occidental team, composed of Messrs. Petty, '13, Collins, '14, and Music, '15. The first debate of a similar kind between Occidental College and the University of Southern California took place in January, 1910, and was won by the Occidental team, composed of Messrs. Pellegrin, '10, Dodson, '10, and Collins, '14.

The Southern California Peace Society. An oratorical contest is held annually under the auspices of the Southern California Peace Society. The aim of the society is to bring about international disarmament. These college contests are for the pur-

pose of interesting college students in the movement. The local contest is under direct charge of the student Oratorical Association, and the winner represents the College in the Intercollegiate Peace Oratorical Contest of Southern California. At the home contest, occurring in April, 1911, Mr. Christopher H. Gaskell took first prize, and Mr. Harold J. White, second,

High School Certificate

Graduates of Occidental College may obtain the high school teacher's certificate for California on the same conditions as graduates of the State University. Full details regarding these conditions will be furnished on application.

The Friday Assembly

The Friday Assembly is a feature of Occidental life scarcely matched anywhere else among the colleges of America. At this assembly vital topics are discussed by eminent men and women from all parts of the world. No lecture course east or west provides its patrons a richer or more varied program than that offered to the students of Occidental every week in the year, free of charge, from their own chapel platform. Its value as part of a college education can hardly be estimated. The following are a few names, among many, of those who have given addresses the past year:

Rev. Robert J. Burdette, D.D., President Wheeler, of the University of California, President Eaton, of Beloit, President Garfield of Williams, Editor MacDonald of the Toronto Globe, Ex-Vice-President Fairbanks, Ex-President Roosevelt.

Physical Training and Athletics

Physical training has its part in the general plan of college work and is subservient to the larger purpose of the institution. No effort is spared to direct the work of the individual in such a way as to harmonize his physical development with other student activities.

The gymnasium is equipped with such apparatus as is needed for systematic body building. Near by are lockers, with dressing rooms, and shower baths supplied with both hot and cold water. A large enclosed court is used by the young women for games, such as basket ball, volley ball and hand ball. Adjoining this court is the young women's dressing and locker rooms, in which are five showers supplied with hot and cold water. Three well-kept tennis courts are open to all the students. The athletic field contains a standard quarter-mile track, with football, baseball and basketball fields. The training house is convenient to the field and contains a good supply of lockers with combination locks, dressing rooms and baths.

Athletics as a phase of the general college life are under the care of the Associated Students, acting

in co-operation with the Faculty athletic committee. Athletics as affecting the health of the individual are controlled by the Physical Director.

Regulations Governing Social Life

The College provides places of residence for the students by means of a system of registered lodgings and boarding places. All students must room in places approved by the Faculty, changing from one place to another only with permission. Students are required to keep reasonable hours and to conduct themselves with propriety at all times. A copy of the rules governing the social life of the College may be obtained from the Dean.

Fees and Expenses

Tuition. The fee for tuition in the College is \$45.00 a semester, payable in advance. Five per cent will be added to all College bills of the first semester not paid by November 1st, and to those of the second semester not paid by March 1st.

No refund will be made to students leaving College except when they are compelled to leave on account of sickness.

Special Fees. The graduation fee is \$5.00. Fees for the laboratory courses in science, payable in advance, are as follows:

	Laboratory Fee	Breakage Deposit
Botany 1	\$3.00	\$
Botany 2	3.00	
Chemistry A	5.00	5.00
Chemistry 2	5.00	5.00
Chemistry 3	5.00	5.00
Chemistry 4A	5.00	5.00
Chemistry 4B	5.00	5.00
Chemistry 6	7.50	5.00
Chemistry 8	5.00	5.00
Zoology 2	3.00	
Zoology 3	2.50	
Zoology 5	5.00	
Zoology 6	5.00	

The laboratory charge in Physics is \$3.00 a semester for each laboratory period of three hours. In Geology a breakage account is kept with each student to be paid at the end of the semester.

No student will be admitted to the chemical laboratory without a receipt from the Business Manager showing that the breakage deposit has been paid. The balance remaining at the end of the semester will be returned.

Living Expenses. A system of registered lodging and boarding places provides places of residence for the students at a cost varying from eighteen to twenty-five dollars per month. New students will be provided on their arrival with complete lists of approved rooms and boarding places.

Applications for rooms in the men's dormitory, may be sent to A. G. Paul, assistant to the President, Occidental College.

The necessary expenses of the student range from \$275 to \$400.

Students who desire to earn their expenses while attending the College should register with the Employment Bureau conducted by the Christian Associations. Opportunities for self support among the students are somewhat limited. The number of students who earn their entire expenses is comparatively small.

Scholarships

The College has a limited number of scholarships available for the relief of deserving students who are unable to pay tuition. In some cases the beneficiary is named by the donor, in others by the President or Board of Trustees. Every candidate for a scholarship must have his application indorsed by some person of recognized standing in his home neighborhood. Any one receiving such aid will be expected to maintain a creditable standing in his classes and to show by his conduct that the assistance has been worthily bestowed. Address all communications regarding these scholarships to the President.

THE HORACE CLELAND SCHOLARSHIP

In addition to those named above, the Horace Cleland Scholarship, recently established by the Al-

umni Association, is awarded, for the Sophomore year only, to that member of each class who seems best entitled to it on the general basis of need and merit.

THE CECIL RHODES SCHOLARSHIPS

Competition for these also is open to students of Occidental. Mr. Clarence Arthur Spaulding, A.B., Class of 1907, passed the qualifying examinations in January, 1908, and is now at Oxford as Rhodes Scholar for Arizona.

STUDENT LOAN FUND

There is a loan fund from which a worthy student in unusual need may borrow at four per cent. interest a sufficient amount to meet a part or all of his tuition, giving his personal note as security. Such loans can be made only in case of real need and through personal conference with the President. Each applicant must furnish satisfactory references and will be expected to maintain a proper standard of scholarship and conduct.

Student Organizations

The Associated Students. The purpose of this organization is to control all student enterprises. All Occidental students are eligible to membership. At its organization, the Associated Students absorbed the Athletic Association, the Oratorical Association, and the Occidental Publishing Company.

These enterprises are now under the direct control of a General Manager and under the general control of an Executive Committee, which is composed of the officers of the Association, the General Manager, and one representative of each of the following interests: Oratory, Athletics, Student Publications, the Alumni, and the Faculty.

All expenditures must be authorized by the Executive Committee; and every month a report of receipts and expenditures, after being duly audited, is published in *The Occidental*.

Christian Associations. The Young Men's and the Young Women's Christian Associations are both represented by strong organizations, being supported by a large majority of the students. The weekly meetings of the Associations are largely attended. Classes for systematic Bible study meet regularly.

Interest in missions is very strong, the Student Volunteer movement being well represented in both Associations.

Each year the Y. M. C. A. sends a delegation to the State conference at Carmel-by-the-Sea, and the Y. W. C. A. a delegation to Capitola.

An important feature of the work of the Associations is the Student Employment Bureau, which is conducted for the benefit of those desiring to earn their expenses during the college year. An Information Bureau is also conducted by the Association for the assistance of new students at the opening of the college year.

Literary Societies. The students of the College support three active literary societies: the Stevenson and the Lowell, composed of young men, and the Laurean Literary Society, composed of young women. These societies hold weekly meetings for debating and other literary work.

Glee Club. The Glee Club continues to maintain its place among the successful organizations of the College. Besides furnishing the music at various services and exercises of the College, the club regularly makes a vacation trip to a number of the surrounding towns. It contributes in no small degree to the social life of its members and to the musical interests of the College.

Membership is based upon ability displayed in competitive trials at the opening of the school year.

Student Publications

The Occidental, the College newspaper, appears each week of the College year. It is edited and managed by students of the College. An annual, La Encina, is published in May by the Junior class. A handbook of information is issued at the beginning of each year by the Y. M. C. A.

Degrees Conferred in 1910

Doctor of Laws

Rev. William Brown Noble, D.D.

Bachelor of Arts

Nellie May Bailey
Mary Edna Blee
Lillard Ray Bond, **Salutatorian**
Bertha Viola Byers
Anna Brockenbraugh Christian
Julia Etta Crawford
Blanche Lunn Davenport
Philip Fortunatus Dodson
Muriel Douglas Fisher
Harriet Ruth Foote
Alva Lucia Gardner
Sara Heath
Gail Dubois Jepson
Edna May Leighton, **Valedictorian**
Mary Elizabeth Lowe
Jean MacDougal
Arthur Woodward McFarland
Falley Cleveland McLaughlin
Harold Francis Pellegrin
Lulu Byrd Rice
Donna E. Roan
Grace May Rowley

Olive Irene Saviers
Ruby Bernice Snively
Fred Clifton Thomson
Williel Thomson, Jr.
Verona Merry Trowbridge
Arthur Nichols Young

Bachelor of Science

Nathaniel Bercovitz
Esther Clarice Cumberland
Charles Putnam Mee

Officers of the Alumni Association

President Dr. Arthur W. Buell, '04
Long Beach.

Vice-President Dr. Isabel Crowell, '02
Alhambra.

Secretary Bessie L. Field, '07
Glendale.

Treasurer Harry C. Dane, '02
Los Angeles.

Executive Committee of the Associated Students

President—

First Semester George V. Baer, '11

Second Semester Lysle R. McKenney, '11

Vice-President Grace McCoy, '11

Secretary Mary L. Reiner, '11

General Manager Williel Thomson, Jr., '10

Faculty Representative Professor Ward

Alumni Representative Watson B. Burt, '08

Editor of "The Occidental" ...Frances W. Lawson, '12

Athletic Representative—

First Semester Lysle R. McKenney, '11

Second Semester Harold Hopkins, '11

Oratorical Representative, ...

Christopher H. Gaskell, '13

Alumni

1893

Maude Bell (Mrs. F. R. Baer),
620 South Euclid Avenue, Pasadena
Martha Thompson (Mrs. Thomas Coyle),
Quogue, New York

1894

Donald K. Cameron, B.L., Baltimore, Md.
H. Percy Dilworth, B. L., Hemet
Floy K. Roberts, A. B. (Mrs. A. N. Jung),
809 Green Street, Los Angeles

1895

Alphonso E. Bell, A. B., Santa Fe Springs
Rev. Donald M. Brookman, A. B.,
180 Washington Avenue, Albany, N. Y.
Leslie E. Lynn, A. B.,
Boca Tres Amigos, Costa Rica, C. A.
William E. Parker, A. B.,
6038 Monte Vista Street, Los Angeles

1896

George Byram, B. S., Box 83a, R. D. No. 2, Ontario
Walter V. E. Thompson, B.S.,
2515 Stanford Avenue, Los Angeles

1897

Helen Harris, B.S.,
1136 East 44th Street, Chicago, Ill.
Pedro Recio, A. B., Chihuahua, Mexico

1898

Rev. Edward H. Miller, A. B., Seoul, Korea

1900

Amy Pressley Gordon, B.L.,
4811 Pasadena Avenue, Los Angeles

Grace Marie Lowder, A. B.,
3026 East Fifth Street, Los Angeles

Alfred Solomon, A. B., Berkeley

1902

Rev. Dwight C. Chapin, A. B.,
5320 Pasadena Avenue, Los Angeles

Isabel Crowell, B.L., M.D.,
925 North Garfield Street, Alhambra

Harry C. Dane, B.S.,
1959 West Washington Street, Los Angeles

Dorothea E. Lewis, A. B. (Mrs. Dwight Potter),
Tappen, New York

Laura Mosher, B.L. (Mrs. Silas Johnson),
Batanza, West Africa

Mabel R. Patty, B.L. (Mrs. Thomas Ogden),
630 East Fern Avenue, Redlands

1903

*Rev. T. Horace Cleland, A. B.

Helen E. Howe, B. S., 2315 Russell Street, Berkeley

Fred H. Schauer, B. S., B. L., Santa Barbara

Edward H. Solomon, A. B., 375 Ave. 51, Los Angeles

*Deceased.

1904

Arthur W. Buell, B.S., M.D.,
402-4 First National Bank Bldg., Long Beach
Loua L. Gorham, A. B., Santa Barbara
Rev. Augustus Roy Thompson, B.S.,
Lares, Porto Rico

1905

Percy Bailey Goodell, B.S.,
797 East Orange Street, Pasadena
Daniel Stewart Hammack, A. B.,
5421 Longfellow St.
Margaret Herskovits, B.L.,
926 Blaine Street, Los Angeles
Bertha Evelyn James, B.L.,
745 Earlham Street, Pasadena
John Robinson Jeffers, A. B.,
1623 Shatto Street, Los Angeles
Eleanor Estelle McClung, B.L. (Mrs. A. W. Buell),
1273 East 1st Street, Long Beach
Irwin William McKee, A. B.,
5430 Marmion Way, Los Angeles
Clara Florence Meader, A. B., Ventura
Lelia Wiatt Quinby, B.L.,
Barranquilla, Colombia, S. A.
Julia Katrina Winn, B. L. (Mrs. W. C. Erdman),
Taiku, Korea
Rev. George Hinsdale Winn, A. B., Taiku, Korea

1906

Edwin Hodge Crabtree, A. B., San Diego
Edna D. Cumberland B.L. (Mrs. W. E. Roberts),
2709 Sprague Street, Omaha, Neb.

- Genevieve M. Cumberland, B.L.,
 131 West Avenue 51, Los Angeles
- Ernest John Cummings, A. B., Carpenteria
- Rebecca Pearl Ellis, B. L., Whittier
- Margaret Gordon Grant, A. B.,
 5542 Pasadena Avenue, Los Angeles
- John Percival Hagerman, A.B.,
 721 South Hope Street, Los Angeles
- Philip Benjamin Kennedy, B.L.,
 44 Ware Hall, Cambridge, Mass.
- Rev. Sidney McKee, B.L., E. Lowery Memorial
 High School, Shanghai, China
- *James McMichael, A.B.,
- Rev. Carl Wallace Petty, B.L.,
 150 East 189th Street, New York City
- Edith C. Powell, B.L. (Mrs. Harry B. Raney),
 Azusa
- George Nye Steiger, A. B., St. John's College,
 Shanghai, China
- Mattie Ethelyn Wakefield, B.S.,
 287 Lincoln Avenue, Pasadena
- Frances Grace Webster, A. B.,
 East Avenue 57, Los Angeles
- Clyde Lynn Earl Wolfe, B.S.,
 509 Pierce Street, Amarillo, Texas

1907

- Frank Peer Beal, B. L., Y. M. C. A., Tientsin, China
- Rev. John Wesley Beard, B. L., Washington
- Robert Henry Blee, B.S.,
 212 Emerson Street, Palo Alto

*Deceased.

- Vera Howard Brooke, A.B.,
1716 Western Avenue, Los Angeles
- Robert Glass Cleland, A. B.,
137 East Avenue 49, Los Angeles
- Charles Herbert Cleveland, B.L.,
221 American Avenue, Long Beach
- Howard Clever, B. S., R.F.D. No. 1, Norwalk
- Mamie Katherine Daniel, B.L. (Mrs. Charles Newton Randolph), 537 Virgil Street, Los Angeles
- Harry Sloan Dukes, B.L.,
2422 East Third Street, Los Angeles
- Bessie Louise Field, B.L.,
411 West 3rd Street, Glendale
- Theodore Fulton, B.L.,
2272 West 29th Street, Los Angeles
- Frances Wallace Gordon, B.L.,
4811 Pasadena Avenue, Los Angeles
- Marie Alden Hopkins, A. B., Fullerton
- Elizabeth Anne Horton, B.L.,
1025 San Pasqual Avenue, Pasadena
- Abigail Lucinda Lane, B.L.,
Y. W. C. A., Sacramento
- Laura Matilda McGaugh, B. L., Rivera
- Anna Montella McKee, A. B., Chai Ryong, Korea
- Rev. Samuel C. McKee, A. B.,
Chen Chow, Southern Hunan Province, China
- Fairy Abiah Means, B.L. (Mrs. Robert Blee),
212 Emerson Street, Palo Alto
- Lillian Merrill, B. L. (Mrs. Stephen Y. Van Meter)
140 East Avenue 53, Los Angeles

- Carey Demaree, B.L., Orosi
 Harriet Hardin Gage, B. L., Downey
 Alice Margaret Gall, A. B., Santa Ana
 James Hazen Gordon, B.S., Fresno
 Annie Louise Harris, B.L., Ione
 William Otto Hoogestraat, B.S.,
 Tekoa, Washington
 Charles Wolfe List, B.L.,
 155 Pasadena Avenue, South Pasadena
 Marla Faye McKean, B.L., Santa Ana
 David Bruce Merrill, B.L.,
 Mount Washington, Los Angeles
 Janet Florence Naismith, B. L., Los Angeles
 Mary Frances Pierce, B.L.,
 157 West Pasadena Street, Pomona
 Harry Blackburn Raney, B. L., Azusa
 James Merle Smith, B.L.,
 319 W. Avenue 53, Los Angeles
 Arthur Logan Spring, B.S.,
 308 West Avenue 50, Los Angeles
 Mary Emma Thomas, A. B.,
 Stephenson Avenue, Pasadena
 Pearl Wiggins, B.S.,
 2515 Michigan Avenue, Los Angeles

1909

- Harriet Louise Annin, A. B.,
 344 West Avenue 53, Los Angeles
 Clara Serena Bartram, A. B.,
 317 W. Ave. 50, Los Angeles
 Paul Garthwright Chapman, A. B., Berkeley

- George Francis Conrad, A. B.,
P. O. Box 392, Long Beach
- Anna Beulah Davis, A. B.,
- Paul Clinton Elliott, A. B., McCormick Theological
Seminary, Chicago, Ill.
- Caroline Eleanor Flanders, A. B.,
Dewittville, Chautauqua Co., New York
- Earl Dwight Hillis, A. B., Princeton Theological
Seminary, Princeton, New Jersey
- William Logan Holley, A. B.,
1472 West 37th Place, Los Angeles
- Christine Vive Hoogestraat, A. B.,
Box 1897, Bisbee, Arizona
- John Cherry Johnson, B.S.,
4957 Pasadena Avenue, Los Angeles
- Maude Eleanor Knudson, A. B.,
3451 Arroyo Seco Drive, Los Angeles
- Winifred La Tourette, A. B.,
Cayucos, San Luis Obispo Co.
- Barbara Ella Lee, A.B.,
Makaweli, Kanai, Hawaiian Islands
- Etta Lee, A.B., Makaweli, Kanai, Hawaiian Islands
- Leona Lodwick, A. B., 443 Oak Street, Hollywood
- Hazel Irene Longacre, A. B., (Mrs. Homer Herrick)
Huron
- Edna Frances Lowe, A. B.,
5619 Monte Vista Street, Los Angeles
- Hannah Lois MacKalip, A. B.,
210 West Avenue 52, Los Angeles
- Clarence Eugene Morrison, A. B.,
Omaha, Nebraska
- Susie Ida Norton, A. B.,
Monrovia

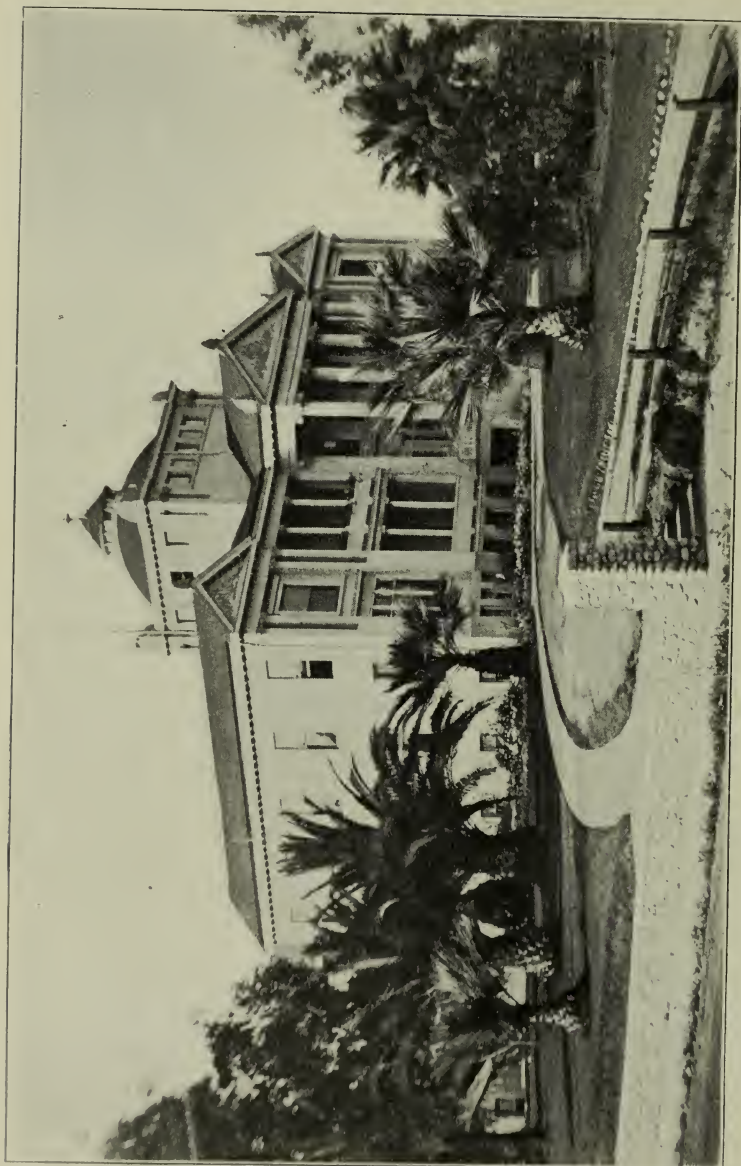
- Jessie Elizabeth Patterson, A. B., Huntville, Utah
Arthur Gordon Paul, A. B.,
 1705 Brooklyn Avenue, Los Angeles
Leah Annette Phillips, A. B.,
 5634 Pasadena Avenue, Los Angeles
Henry Proctor, Jr., B.S., Santa Paula
Herbert Palmer Rankin, B.S., Santa Ana
Marie Luella Rice, A. B.,
 618 West Avenue 50, Los Angeles
William Everett Roberts, A. B.,
 2709 Sprague Street, Omaha, Nebraska
Frank Neill Rush, B.S., South Pasadena
Janet Eliza Smart, A. B., Santa Ana
Eloise Strobridge, A. B.,
 1807 Bonnie Brae, Los Angeles
Harry Bryson Thomas, A.B.,
 3901 Brooklyn Avenue, Los Angeles
Samuel Pierce Thomas, B.S.,
 3901 Brooklyn Avenue, Los Angeles
Henry Lyon Thomson, A.B., Grant's Pass, Oregon
Earle Vonard Weller, A. B.,
 327 West Avenue 53, Los Angeles
Grace Elinor Whitcomb, A. B. (Mrs. H. P. Rankin)
 Santa Ana

1910

- Nellie May Bailey, A. B.,
 769 North Orange Grove Avenue, Pasadena
Nathaniel Bercovitz, B.S.,
 Avenue 53 and Longfellow St., Los Angeles
Mary Edna Blee, A. B.,
 115 Orange Avenue, Santa Ana
Lillard Ray Bond, A. B., Santa Paula

- Bertha Viola Byers, A. B.,
334 East Orange Grove Avenue, Pasadena
- Anna Brockenbraugh Christian, A. B.,
1916 3rd Street, San Diego
- Julia Etta Crawford, A. B.,
R.F.D. No. 7, Santa Ana
- Esther Clarice Cumberland, B.S.,
131 West Avenue 51, Los Angeles
- Blanche Lunn Davenport, A. B.,
1243 Glendale Avenue, Glendale
- Philip Fortunatus Dodson, A. B.,
916 Palm Avenue, South Pasadena
- Muriel Douglas Fisher, A. B.,
1130 Windsor Place, South Pasadena
- Ruth Harriet Foote, A. B.,
5337 Monte Vista Street, Los Angeles
- Alva Lucia Gardner, A. B.,
515 El Centro Street, South Pasadena
- Sara Heath, A. B.,
Baldwin Park
- Gail Dubois Jepson, A. B.,
271 Crescent Drive, Pasadena
- Edna May Leighton, A. B.,
327 West Ocean Avenue, Long Beach
- Mary Elizabeth Lowe, A. B.,
5619 Monte Vista Street, Los Angeles
- Jean MacDougal, A. B.,
211 East Olive Street, Monrovia
- Arthur W. McFarland, A. B.,
Falk's Store, Idaho
- Falley Cleveland McLaughlin, A. B.,
6523 Ruby Street, Los Angeles
- Charles Putnam Mee, B.S.,
122 Hancock Street, Los Angeles

- Harold Francis Pellegrin, A. B., Anaheim
Lulu Byrd Rice, A. B.,
618 West Avenue 50, Los Angeles
Donna E. Roan, A. B.,
420 South El Molino Avenue, Pasadena
Grace May Rowley, A. B.,
Wei Hsien, Shantung, China
Olive Irene Saviers, A. B., Oxnard
Ruby Bernice Snively, A.B., Oxnard
Frederick Clifton Thomson, A. B.,
Grant's Pass, Oregon
Williel Thomson, Jr., A. B., Grant's Pass, Oregon
Verona Merry Trowbridge, A. B.,
201 West Avenue 54, Los Angeles
Arthur Nichols Young, A. B.,
645 South Boyle Avenue, Los Angeles



THE MEN'S DORMITORY

Register of Students

SENIORS

Annin, Roswell Howard	Los Angeles
Baer, George Van Dusen	Pasadena
Carter, Louise Noble	Los Angeles
Chamberlin, Edna Louise	Los Angeles
Crinklaw, Lou Elizabeth	Santa Susana
Douglass, Clifford Alden	Los Angeles
Edwards, Mary Bartee	Los Angeles
Faries, David Reid	Los Angeles
Gobar, George Hutchinson	Fullerton
Harvey, Ada Jane	Santa Fe, New Mexico
Herriott, Anna Grace	Oakland
Hopkins, Charles Harold	Fullerton
Huscroft, Rowena Margaret	Los Angeles
Kreider, Boyd B.	Davis
McCoy, Grace	Beaumont
McKee, Willa Josephine	Los Angeles
McKenney, Lysle Rothwell	San Diego
Nelson, James Franklin	Anaheim
Overton, Eva Marler	Los Angeles
Patterson, Robert Covert	Los Angeles
Reiner, Mary Lydia	Santa Maria
White, Harold John	Pasadena

JUNIORS

Barnard, Walter Everett	Worcester, Mass.
Bishop, Edwin Abbey	Fullerton
Blount, Herbert Turner	Los Angeles

Boyd, Leslie Logue	Los Angeles
Brack, Georgia McKenzie	Los Angeles
Chase, Rosalind Joleva	Los Angeles
Creighton, Roy Lamont	Phoenix, Arizona
Cumberland, William Wilson	Los Angeles
Donaldson, Charlotte Victoria	Los Angeles
Fifield, Helen Faye	Los Angeles
Fuller, Charles Morris	Los Angeles
Gardner, Bessie Margery	South Pasadena
Hayslip, Rebecca	Pomona
Hollister, Warner Harrington	Pasadena
Johnson, Fred McPherson	Los Angeles
Key, Sarah E.	Fullerton
Landreth, Harold Brooks	Pasadena
Lawson, Francis William	Alhambra
McGee, Robert David	Santa Ana
McPeak, Daniel	Los Angeles
Noyes, Mary	Los Angeles
Osmond, Edith Griffith	Los Angeles
Pettit, Carolyn Walton	Fowler
Petty, Alonzo Ray	Los Angeles
Pleukharp, James Farmer	Los Angeles
Post, Esther Annette	Fowler
Reeve, Archie	Los Angeles
Schauer, Benjamin Rey	Santa Barbara
Schoonover, Warren R.	Los Angeles
Smart, James Patterson	Santa Ana
Stanley, Bertha Elvira	Whittier
Thomas, Frank Lynn	Los Angeles
Tucker, Celia Elliott	Alhambra
Truesdell, Alice Marion	Redlands
Tuller, Anna Louise	Pomona
Vickers, Grace Adelaide	Mitchell, So. Dak.

SOPHOMORES.

Ainslie, Charles A.	Oxnard
Allen, Mary Harriet	Los Angeles
Angus, Howard Weldon	Los Angeles
Bartlett, Eloise	Los Angeles
Bender, Willard Tilden	Santa Barbara
Blee, James Benton	Santa Ana
Blount, George Winfield	Los Angeles
Bradbeer, Chester Boal	Los Angeles
Brier, Edward Blake	Los Angeles
Brier, William Wallace	Los Angeles
Buck, Bertha May	Los Angeles
Bucklin, Alvin Lumsden	Los Angeles
Collins, Victor Ford	South Pasadena
Culbertson, Mary Coe	Exeter
Culp, Dorothy	Escondido
Culp, William	Escondido
Darrow, Leon Elbert	Los Angeles
Davis, Dorothea	Los Angeles
Dill, David Bruce	Hemet
Freeman, Stella	South Pasadena
Gaskell, Christopher Harold	San Diego
Gillies, Araminta Mary	South Pasadena
Gordy, Mabel Catharine	Pasadena
Hamilton, Bessie Edna	Los Angeles
Hopkins, Albert Gould	Pasadena
Horton, Norval Townsend	Pasadena
Lewis, Charles Henry	Fowler
Maile, Robert Sharrell	Los Angeles
McCoy, Horace Hoagland	Baumont
McDuff, Esther	Long Beach
Merrill, Marguerite Woodward	Los Angeles

Merriman, Mary Augusta	Santa Barbara
Moore, Helen Annie	Los Angeles
Morrison, Bessie Belle	Los Angeles
Myers, Neva Marguerite	Los Angeles
Nelson, Nora Allen	Los Angeles
Osborn, Everett Lawrence	Glendale
Percival, William Burt, Jr.	Los Angeles
Pratt, Jessie Barnum	Los Angeles
Randall, Margaret Mitchell	Los Angeles
Richardson, Elmer Clark	Los Angeles
Roan, Everett Hale	Pasadena
Russell, Grace Violet	Los Angeles
Santikian, Cynig	Los Angeles
Seay, Wellford	South Pasadena
Smart, William Anderson	Santa Ana
Steele, Rose	Pomona
Stevens, John Egbert	Modesto
Sylvanus, Ethel Bell	Colton
Thacker, Emma Beryl	Los Angeles
Thorndike, William Sharp	Hillyard, Wash.
Tidball, Edith Lucile	Santa Ana
Turley, Joseph Ingersoll	Sunnyside, Idaho
Wadsworth, Mildred	South Pasadena
Wieman, Drury Park	Los Angeles
Wieman, Lois Hazel	Los Angeles
Woolf, Robert Eugene	Los Angeles
Yakeley, Leon	Los Angeles

FRESHMEN

Abbott, Nellie	Pasadena
Arrants, Annie	Los Angeles
Baer, Francis Shaw	Pasadena

Baker, Clara Beymer	Pasadena
Barker, Clarence Alfred	Pasadena
Barnhill, Jessie Margaret	Colton
Bauer, Mayme Caroline	Los Angeles
Beede, Benjamin Willis	Whittier
Bickford, John Thomas	Los Angeles
Boal, Louise Baxter	Los Angeles
Boekenooen, Fred Edwards	South Pasadena
Brown, Frederick Walton	Pasadena
Brown, Joseph Baker	Los Angeles
Bryan, Edith Sibyl	Pasadena
Bush, Cresenz Irene	Needles
Church, Leroy Dyer	Los Angeles
Clapp, James Norden	Pasadena
Clark, Everett Robertson	Everett, Wash.
Clark, Stephen Cutter	Pasadena
Clayton, John Heber	Los Angeles
Clute, Walker Stillwell	Los Angeles
Cohn, Esther	El Rio
Culter, Mabel Mildred	El Modena
Daniel, Margaret Lantz, ...	Los Angeles
Day, Eleanor Edith	Pasadena
Driskell, Clyde Newton	Los Angeles
Dunlap, Willard Everett	Los Angeles
Durrell, Laura Leona	Azusa
Ehrenfeld, Day	Pasadena
Eldred, Fred Huestio.. ..	Los Angeles
Elliott, Elizabeth Frances	Los Angeles
Fifield, Dean	Los Angeles
Fuller, Alta Mae	Pasadena
Gamble, Clarence James	Pasadena
Grant, Ulysses Solon	Los Angeles
Gray, Ralph Herbert	Los Angeles

Guy, Gratia	Los Angeles
Hayes, Oliver Bliss	Pasadena
Hazlett, Edith May	Los Angeles
Henderson, John Alexander, Jr.	Santa Ana
Heninger, Walter M.	Los Angeles
Henry, William Mellors	Los Angeles
Herman, Clara Gertrude	Los Angeles
Hille, Jere Giliner	San Fernando
Hogan, Nelson Story	Los Angeles
Jenkins, Evan Liston	Pasadena
Jones, Mary Eleanor	Winterset, Iowa
Jones, Thaddeus Crane, Jr.	Pasadena
Keith, Mildred Marie	South Pasadena
Kincaid, Grace Dorothea	Los Angeles
Kirkpatrick, Harry Allister	Alhambra
Knudson, Mabel Lillian	Los Angeles
Lawyer, Edwin Briggs	South Pasadena
Lientz, Oliver Kingsley	Los Angeles
Logan, Arthur Evan	Escondido
Mace, Winfred Hayes	South Pasadena
Mason, Bruce Waldo	Long Beach
McDonald, Bruce Harold	Los Angeles
McNary, Hugh Alin	Los Angeles
Mizener, Buena	Los Angeles
Moore, Harriet Edith	Los Angeles
Musick, Charles Elvon	Pasadena
Osborn, Eva Pearl	Santa Ana
Padgham, Henry Irving	Santa Ana
Pettit, Anna Almeda	Fowler
Phillips, Chloe Alberta	Los Angeles
Powers, William Milton	Los Angeles
Reeves, Hazel	Alhambra
Rhee, Soon Ki	Seoul, Korea

Richards, Percie Douglas	South Pasadena
Robertson, Rex Phillips	Pasadena
Rogers, Rowena Jean	Los Angeles
Rolph, Helen Marguerite	Los Angeles
Sheridan, Grace	Santa Barbara
Sherman, Edna Virginia	Pasadena
Smith, Louise	Los Angeles
Smith, Muriel Joy	East Hollywood
Sprague, Grace Bonita	Los Angeles
Sprecher, Marjorie Eleanor	Colton
Stoltz, John C.	Ottumwa, Iowa
Stoltz, Oscar William	Ottumwa, Iowa
Summers, Eva Elizabeth	Los Angeles
Thompson, William A.	Londonderry, Ireland
Viall, Ernest F	Kansas City, Mo.
Wallace, Grace Ann	Los Angeles
Watts, Arthur Pryor	Los Angeles
Weymouth, Mary	Armarillo, Texas
Whitney, Margaret Elizabeth	Los Angeles
Withey, Hettie Alice	Los Angeles
Wride, Homer Martin	South Pasadena
Young, Paul Thomas	Los Angeles
Young, Susie Alpha	Los Angeles

SPECIALS.

Barkelew, Ethel R.	Los Angeles
Brooks, Helen	Los Angeles
Cassel, Olive Lillian	Los Angeles
Daniel, William Hardy	Santa Ana
Gillis, Edward	Beaumont
Hunt, James Raymond	Los Angeles

McAfee, Hugh Bailey	Berkeley
Sanborn, Fern Edna	Sacramento
Simmons, Francis William	South Pasadena
Spalding, Mary Louise	Los Angeles
Ward, Mabel	Los Angeles
Weller, Earle Vonard	Los Angeles
Wendling, Lillie Ethel	South Pasadena

FORM OF BEQUEST.

Those intending to devise property to Occidental College are requested to use the following form: "I hereby give, devise and bequeath unto the Occidental College of Los Angeles, State of California, the sum of.....Dollars."

For property other than money the form should be correspondingly varied.

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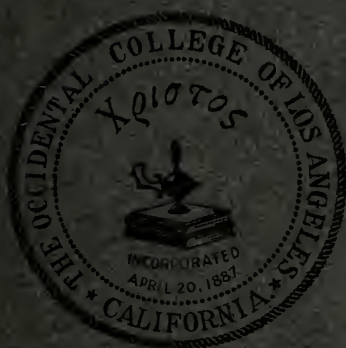
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MAY, 1912

CATALOGUE NUMBER



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Los Angeles, California

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CATALOGUE OF
OCCIDENTAL
COLLEGE
1911-1912

ANNOUNCEMENT
for 1912-1913 •

LOS ANGELES, CALIFORNIA

473

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Calendar

1912

June 3-7, Monday-Friday

Final Examinations.

June 9, Sunday, 4 p.m.

Baccalaureate Sermon.

June 9, Sunday, 5 p.m.

Vesper Service of the College Christian Associations.

June 11, Tuesday

Senior Class Day.

June 12, Wednesday, 10:30 a.m.

Twentieth Annual Commencement.

Sept. 16-17, Monday-Tuesday

Examinations for Admission and for Removal of Conditions. Registration of New Students.

Sept. 18, Wednesday, 11:15 a.m.

First Semester Begins.

Oct. 15-16, Wednesday-Thursday

Rhodes Scholarship Qualifying Examinations for Southern California, held at Occidental.

Nov. 28, Thursday

Thanksgiving Day.

Dec. 20, Friday, 4 p.m.

Christmas Vacation Begins.

1913

Jan. 7, Tuesday, 11:15

Christmas Vacation Ends.

Jan. 27-31, Monday-Friday

Mid-Year Examinations.

Jan. 31, Friday, 4 p.m.

First Semester Ends.

Feb. 3, Monday

Registration of New Students.

Feb. 4, Tuesday, 11:15 a.m.

Second Semester Begins.

Feb. 13, Thursday

Day of Prayer for Colleges.

Mar. 28, Friday, 4 p.m.

Spring Vacation Begins.

April 8, Tuesday, 11:15 a.m.

Spring Vacation Ends.

May 30, Friday

Decoration Day.

June 2-6, Monday-Friday

Final Examinations.

June 8, Sunday, 4 p.m.

Baccalaureate Sermon.

June 8, Sunday, 5 p.m.

Vesper Service of the College Christian
Associations.

June 10, Tuesday

Senior Class Day.

June 11, Wednesday, 10:30 a.m.

Twenty-first Annual Commencement.

Occidental College

OCCIDENTAL is a Christian college of the liberal arts and natural sciences, with certain very definite aims. One of these is to provide the best possible training preliminary to the study of what are known as the learned professions. In carrying out this aim, those planning the practice of law, for example, are offered courses adapted to their future needs, in History, Economics, Sociology and English. Candidates for medicine find an admirable program provided by the departments of Chemistry and Biology. To the prospective teacher, aspiring first of all to know his subject, opportunity to specialize within the limits of an undergraduate course must strongly appeal. Occidental alumni who wish to teach in California are able to secure the high school certificate on the same terms as graduates of the State University. The preparation afforded for post-graduate study is both ample and thorough. This is shown by the surprisingly high rank taken by Occidental alumni in the graduate departments of a number of the largest universities east and west. The attention of candidates for the ministry is called to the admirable provision made for their needs in the Classics, Philosophy, English and History. Equal provision is made for those seeking other professions than the ones already named. Mainly under the head of Mathematics and Physics, the student preparing for engineering finds

the subjects he would be expected to pursue in the first two years of his technical course. If only an engineering course is planned, these two years may be taken at Occidental with no loss of time or thoroughness. If he has means for a complete college course before going to the technical school, each year spent at Occidental may be turned to advantage in his chosen calling, and greater success attained ultimately than by any of the frequently preferred "short cuts."

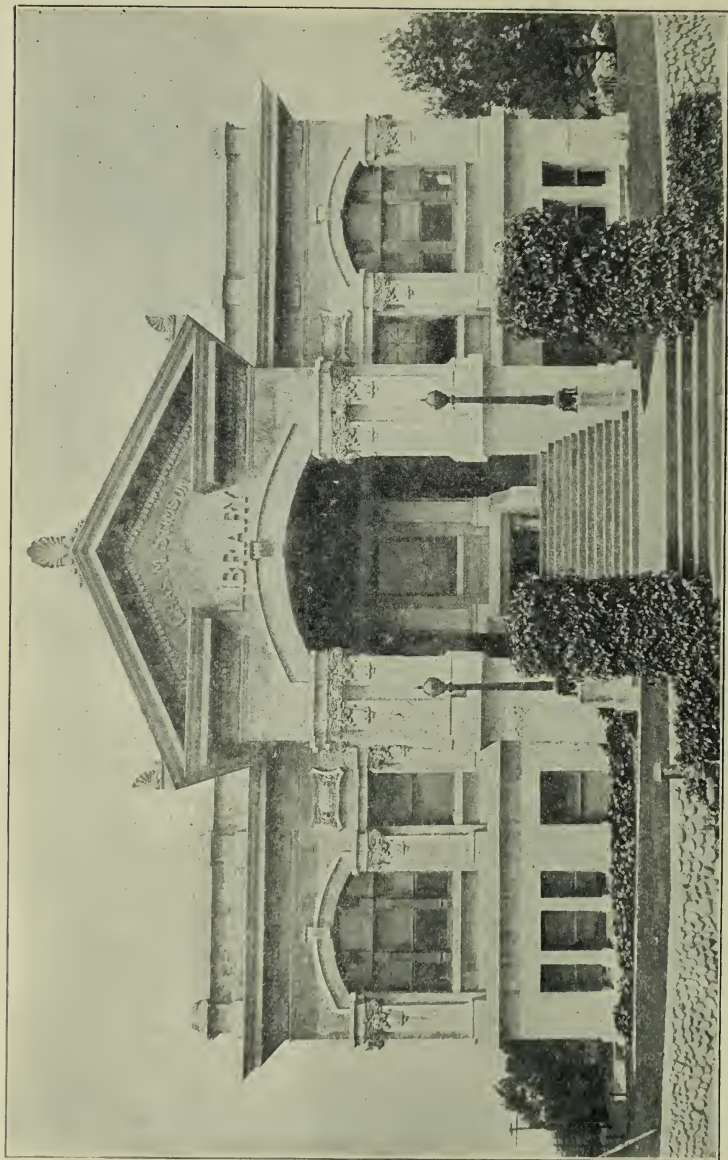
One purpose of the college, which can never be subordinated to another, is to fit men and women for life in its broadest sense. The value to a business man of the mental discipline, the wide outlook and the high ideals here acquired is beyond calculation. In any walk of life, the brand of culture which goes with an Occidental diploma means for the bearer reduced risk of failure, increased capacity for enjoyment, largely multiplied usefulness to society.

Though bound by no peculiar creed, Occidental stands firmly on the great truths of evangelical Christianity. Forever barring sectarianism, the word of God is held to be the one book of divine authority. Through faith in its teachings the founders of the college sought to mould young men and young women to lives of the highest usefulness, and in that faith their successors remain.

September, 1913, is now definitely fixed as the time for removing the college to its new home in Eagle Rock Valley. The change will mark an era in its history. The situation, chosen from many, is one of ideal beauty. Together with their accom-

panying facilities, the buildings then to be opened for the first time will quite surpass our former dreams.

While waiting for them to open, it is proper to call attention to improvements still taking place on the old campus, in Highland Park. The former academy building has been transformed into a men's dormitory and student headquarters, with finely appointed gymnasium attached. A handsome structure for its original purpose, it lends itself admirably to the new. Announcement will be found elsewhere regarding contemplated enlargement of the curriculum, and further expansion is planned.



THE STIMSON LIBRARY

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Faculty and Instructors

Officers of Administration

Board of Trustees

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Rev. E. S. McKittrick, D.D.,
Arthur H. Fleming,
Fred H. Schauer, Esq.

Term expiring January 31, 1914:

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Giles Kellogg,
W. C. Patterson,
Hon. Robert Watchorn.

Term expiring January 31, 1915:

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Rev. Wm. S. Young, D.D.,
E. P. Clapp, M.D.,
Willis H. Booth.

Term expiring January 31, 1916:

W. E. McVay,
D. B. Gamble,
John Willis Baer, LL.D.,
Webster Merrifield, Ph.D., LL.D.,

Term expiring January 31, 1917:

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Edward H. Groenendyke,
Rev. Robert Freeman,
M. Cochrane Armour.

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Degrees—Trustees Baer, McKitrick, Young, Kellogg.

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Dean of the Faculty: Professor of Philosophy.

WILLIAM S. STEVENSON, LL.D.,
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ERNEST E. ALLEN, M.A.,
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MARY CARRUTH CUNNINGHAM, M.A.,
Professor of History.

WILLIAM D. WARD, Ph.D.,
Rutan Professor of Latin.

ANNA PEARL COOPER, M.A.,
Dean of Women: Professor of English.

CALVIN O. ESTERLY, Ph.D.,
Professor of Biology.

GEORGE F. COOK, Ph.D.,
Librarian: Professor of Education: Assistant
Professor of Biology.

WILBUR A. FISKE, M.A.,
Professor of Geology: Assistant Professor of
Physics.

WILLIAM BELL, M.A.,
Professor of French and Spanish.

*In order of appointment, excepting the President and the Dean.

OCCIDENTAL COLLEGE

LEONIDAS R. HIGGINS, Ph.D.,
Professor of Greek.

ELBERT E. CHANDLER, Ph.D.,
Professor of Chemistry.

JOHN MEAD ADAMS, Ph.D.,
Professor of Physics.

LINNAEUS H. WESTCOTT,
Instructor in Mechanical Drawing.

JOHN PRICE ODELL, M.A.,
Associate Professor of English.

HOWARD W. KELLOGG, M.A.,
Professor of Biblical Literature.

FRANK E. MOLL, M.A., S.T.B.,
Acting Professor of German.

ARTHUR G. PAUL, A.B.,
Registrar: Instructor in English.

JOSEPH A. PIPAL,
Physical Director.

MRS. JOSEPH A. PIPAL,
Physical Director for Women.

CHARLES B. MOORE, M.A.,
*Principal of the Academy.

*The Academy will be discontinued after June, 1914. No first or second year pupils will be received in September, 1912, and as the other classes finish the course their places will remain unfilled.

Officers of Administration

JOHN WILLIS BAER, LL.D.,
President.

THOMAS G. BURT, Ph.D.,
Dean of the Faculty.

ANNA PEARL COOPER, M.A.,
Dean of Women.

ARTHUR G. PAUL, A.B.,
Registrar.

GEORGE F. COOK, Ph.D.,
Librarian.

BERNICE B. SMITH,
Assistant Librarian.

WILBUR G. SMART,
Business Manager.

STANDING COMMITTEES OF THE FACULTY

President's Council—Dean Burt, Dean Cooper, Professor Stevenson, Professor Allen, Professor Cunningham, Principal Moore.

Admission, Classification and Schedule—Professor Ward, Dean Burt, Professor Allen, Mr. Paul.

Athletics—Professor Esterly, Professor Chandler, Professor Bell, Director Pipal, Mr. Paul.

Catalogue and Curriculum—Professor Ward, Professor Stevenson, Professor Allen, Professor Esterly, Professor Bell, Dean Burt.

Christian Work—Professor Bell, Professor Cunningham, Professor Kellogg, Principal Moore, Mr. Westcott.

Grounds and Buildings—Professor Fiske, Professor Odell, Professor Moll.

Laboratories—Professor Adams, Professor Esterly, Professor Cook, Professor Fiske, Professor Chandler.

Library—Professor Higgins, Professor Cook, Dean Burt, Dean Cooper, Professor Kellogg, Professor Esterly, Professor Cunningham.

Rules and Discipline—Dean Burt, Dean Cooper, Professor Higgins, Professor Cook, Professor Ward, Mr. Paul.

Social Life—Dean Cooper, Dean Burt, Principal Moore.

Events of the Year

1911

- May 25** Occidental-University of Southern California Debate, at the University of Southern California.
- June 2** Annual Demonstration of the Department of Physical Training.
- June 5** Address, Rev. Nehemiah Boynton, D.D., Brooklyn, N. Y., Moderator of the National Council of Congregational Churches.
- June 11** Baccalaureate Sermon, Rev. Robert Freeman, Pasadena.
- June 11** Vesper Service of the College Christian Associations.
- June 12** Senior Play.
- June 13** Senior Class Day.
- June 14** Nineteenth Annual Commencement.
- June 14** Alumni Banquet.
- Sept. 20** Opening of the New College Year. Addresses: Rev. Hugh K. Walker, D.D., President of the Board of Trustees, "The Better Day;" Rev. Robert J. Burdette, D.D., Pasadena, "Always Forward."
- Sept. 22** Address, Rev. Arthur S. Phelps, D.D., Los Angeles. "College Chums."
- Oct. 5** Address, Hon. Francis J. Heney, San Francisco. "The Initiative, Referendum and Recall."
- Oct. 13** Address, Hon. W. D. Stephens, Los Angeles, Representative in Congress from the Seventh District. "The Opening of the House."
- Oct. 16** Address, President William Howard Taft. "The Higher Plane of College Life."

- Oct. 27 Address, Rev. Robert Freeman, Pasadena. "Playing to the Galleries."
- Nov. 2 Lecture before the Faculty Round Table, Prof. Calvin O. Esterly, Ph.D., Occidental College. "Life as Physics and Chemistry."
- Nov. 3 Lecture, Prof. Edward B. Warman, M.A., Pasadena. "The True and the False in Elocution."
- Nov. 10 Address, Mr. Calbraith P. Rodgers, New York. "The Future of Aviation."
- Nov. 24 Lecture, Prof. Edward B. Warman, M.A., Pasadena. Second lecture on "The True and the False in Elocution."
- Dec. 7 Lecture before the Faculty Round Table, Prof. E. E. Chandler, Ph.D., Occidental College. "Universal Equilibrium."
- Dec. 8 Illustrated Lecture, Rev. William Horace Day, D.D., Los Angeles. "In the High Sierras."
- Dec. 15 Announcement by President Baer of the Completion of the Quarter Centennial Fund of \$500,000. Addresses by Mayor George Alexander, Rev. Hugh K. Walker, D.D., and Messrs. W. L. Green and Lorin A. Handley.
- Dec. 18 Address, President Harry M. Crooks, Albany College, Albany, Oregon. "Growth."
- Dec. 19 Second Annual Occidental Dinner.

1912

- Jan. 3 Address, Rev. Arthur S. Phelps, D.D., Los Angeles. "New Year Resolutions."
- Jan. 4 Lecture before the Faculty Round Table, Prof. W. A. Fiske, M.A., Occidental College. "Crystals and Gold."
- Jan. 5 Address, Rev. Robert J. Burdette, D.D., Pasadena. "Keep Sweet and Keep Moving."

- Jan. 9 Lecture, Principal Charles B. Moore, M.A., Occidental Academy. "The Epic Poem in National Literature, with Especial Reference to the Arthurian Cycle of Legends."
- Jan. 12 Address, Rev. Dana S. Bartlett, D.D., Los Angeles. "The Care of the City's Unfortunate."
- Jan. 19 "Merchant of Venice," presented by the Arden Shakespeare Club.
- Jan. 26 Address, Rev. Guy W. Wadsworth, D.D., Western Secretary of the Temperance Committee of the Presbyterian Church. "Alcohol versus Leadership."
- Feb. 9 Illustrated Lecture, Dr. Wilfred S. Grenfell, Labrador. "Among the Labrador Fishermen."
- Feb. 12 Addresses by Mr. Warner, General Secretary of the Prohibition League, Mr. J. Ernest McAfee, Associate Secretary of the Presbyterian Board of Home Missions, and Rev. William P. Shriver, Secretary of the Department of Immigration, Presbyterian Board of Home Missions.
- Feb. 13 Illustrated Lecture, President John Willis Baer, LL.D., Occidental College. "Following the Flag in Porto Rico."
- Feb. 16 Day of Prayer for Colleges. Sermon by Rev. Robert Freeman, Pasadena. "The New Birth."
- Feb. 21 Address, Rev. Dr. Perry, Vancouver, B. C. "Christ the Great Master of the Soul."
- Feb. 23 Illustrated Lecture, Mr. J. W. Bengough, Cartoonist, Toronto, Canada. "The Single Tax."
- Feb. 24 Triangle Debate between Occidental, Pomona and U. S. C.

- Mar. 7 Lecture before the Faculty Round Table, Dean Anna Pearl Cooper, M.A., Occidental College. "Old English and Scottish Ballads."
- Mar. 11 Address, Rev. Arthur H. Smith, D.D., China. "China, the Land of Opportunity."
- Mar. 12 Illustrated Lecture, Prof. William Bell, M.A., Occidental College. "The Passion Play at Oberammergau."
- Mar. 15 Address, Mr. Charles D. Hurrey, New York, International Secretary of the Y. M. C. A.
- Mar. 22 Address, Mr. W. R. George, New York. "The George Junior Republic."
- April 4 Address, Prof. Edward S. Steiner, Ph.D., Iowa College, Grinnell, Iowa. "The Immigration Problem."
- April 5 Address, Mr. Arthur Rugh, Shanghai, China. "Cleaning China."
- April 9 Illustrated Lecture, Prof. Ernest E. Allen, M.A., Occidental College. "The Development of the Solar System."
- April 11 Address, Governor R. S. Vessey, South Dakota. "The Better Citizen."
- April 11 Lecture before the Faculty Round Table, Mr. Arthur G. Paul, A.B., Registrar of Occidental College. "Grading Professors."
- April 12 Address, Prof. Henry S. Pritchett, Ph.D., New York, President of the Carnegie Foundation for the Advancement of Teaching.
- April 12 Dramatic Recital, Mrs. Frederick G. Miller, Los Angeles. "The Bluebird," Maeterlinck.
- April 16 Reception to Miss Helen Gould, New York, given by the Young Women's Christian Association of the College.

- April 19** Reading, Mr. J. W. Foley, South Dakota. Original Poems.
- April 26** Address, Senator Robert M. LaFollette, Wisconsin. "Popular Government."
- May 2** Lecture before the Faculty Round Table, Director Joseph A. Pipal, Occidental College. "The Relation between Physical Education and Mental Development."
- May 3** Address, Rev. R. A. Torrey, D.D., Los Angeles. "The Good Confession."
- May 7** Lecture, Prof. John P. Odell, M.A., Occidental College. "The Trail of the Charlatan."
- May 24** Dramatic Reading, Mr. Benjamin Scovel, Los Angeles.
- May 25** "The Sawdust Hero," an original drama of campus life, presented by the Associated Students in the Temple Auditorium.
- May 24-25** Annual Visit of Astronomy and Physics departments to the Mt. Wilson Solar Observatory.
- May 31** Illustrated Lecture, Prof. Frank P. Brackett, M.A., Pomona College. "An Astronomical Expedition to Algeria."

Material Equipment

Grounds

As the catalogue goes to press, the new campus presents a scene of varied activity. The grading, including an unusually fine athletic field and costing well up in the thousands, is practically complete. Building operations are already under way and will be rapidly pushed. September, 1913, is the time set for occupancy. Occidental's dream of a better location with enlarged quarters is thus soon to be realized. The next few months will witness the rise of a group of structures worthy an institution of higher learning and planned to meet every modern demand. The site on which they are to stand is a part of Occidental Park, in Eagle Rock Valley. Though lying among the hills, with the mountains in the background, it is nevertheless accessible by trolley from any part of Los Angeles. Convenience of location, pure atmosphere and magnificent natural scenery, combine in rendering it an ideal place for a college.

The year 1912-1913 will be the last on the old campus. This consists of twenty-five acres located in Highland Park, in the northeastern portion of Los Angeles, midway between the business center of that city and Pasadena. It is easy of access, being on one of the boulevards which connect the two cities and reached by two lines of electric cars. At the same time it is quite suburban in its surround-

ings, and by its altitude clear removed from the smoke and dust of the city. Health and beauty of situation are enhanced by the presence of a cultured Christian community in which the different churches vie with each other in providing every religious and social advantage.

Buildings

The Hall of Letters contains the rooms of the administrative officials, and lecture rooms for all departments except Biology, Geology and Chemistry. It contains also the halls of the Christian Associations and of the Literary Societies, and an auditorium furnished with opera chairs and having a seating capacity of five hundred. Actual use has proved it to be admirably adapted to the requirements of an up-to-date, progressive school.

The Stimson Library, erected by Mr. C. M. Stimson of Los Angeles, is one of the most beautiful library buildings on the Coast. The lower floor is at present used by the departments of Biology and Geology. The main floor contains reading and reference rooms, librarian's office, stack room, and the usual facilities for efficient work.

The building on the west side of the campus, formerly occupied by the Academy but now changed to a Men's Dormitory, is attractive in design and provides quarters both comfortable and convenient.

Next to the Dormitory is the Gymnasium, newly equipped with a variety of physical apparatus, hot and cold baths, and a court for indoor games.

In addition to these, there are two frame buildings used as Chemical Laboratories.

Library

The Stimson Library contains nearly eight thousand volumes, including many valuable reference works. Additions are continually being made. Several of the department libraries are especially creditable, being well stocked with the latest and best literature in their particular lines.

Laboratories and Apparatus

The Biological Laboratories are well equipped. The student in the beginning courses is provided with a compound microscope suitable for all ordinary work; in the higher courses where a microscope is required, each student has an instrument that is completely equipped with condenser, oil-immersion objective and camera. The departments have a very full equipment of stains, reagents and microscopical accessories, such as microtomes, paraffine baths and the like.

The zoological collections are adequate for present needs, containing representative types of the animal kingdom and some special preparations of both vertebrates and invertebrates. There is a working collection of bird skins. There are also a number of good models for embryology and a complete dissectable model of man.

The Botanical equipment is fully sufficient for the needs of the courses offered. Included in the collection is a catalogued herbarium of about 1000 sheets.

The department of Geology and Mineralogy is equipped for efficient work. One of the chief fea-

tures is a large and valuable collection of minerals, rock specimens and fossils, many of which have been collected by students of the department, others donated by friends of the College, while several sets have been purchased from reliable dealers. More than two thousand lantern slides, illustrating nearly every feature of geological interest, have been made in the department, and the number is continually increasing.

These, accompanied by maps, models, geological charts and other illustrative material, greatly assist in acquiring a proper conception of the laws of dynamical and historical geology.

The Chemical laboratories occupy, for the present, two frame buildings on the edge of the campus. One of these buildings contains a lecture room, a laboratory for general chemistry and qualitative analysis, and a well equipped supply room. The other contains a laboratory for quantitative analysis and organic chemistry, and a weighing room, well supplied with analytical balances. Both laboratories are provided with modern desks, each with its own set of apparatus, so that the student may work independently. Extra apparatus may be obtained from the supply room as needed. New apparatus and equipment are being added each year as the needs of the courses demand it.

The department of Physics is equipped with a large supply of modern apparatus for demonstration from the best foreign makers, and with individual laboratory apparatus for two years of college work as well as for the elementary course. A valuable

addition to the department's resources is a workshop supplied with a two-horsepower motor, a screw-cutting engine lathe, a wood lathe, a saw table, an emery grinder, and a one-kilowatt direct-current generator.

The department of Mathematics is equipped with a reference library of 200 volumes, by the best authors, and covering every branch of mathematics. A ten-inch Newtonian reflecting telescope is on the ground, and the expectation is that it will be mounted in a suitable observatory. The department also has two sextants, transit, Y level, leveling rod, polar planimeter, slide rule, Thatcher's calculating machine, Crelle's calculating tables, a high-grade protractor, parallel rulers, celestial globe, planetarium, and a number of less important instruments.

Requirements for Admission

Requirements for Admission

Admission to the Freshman Class

Candidates for admission to the Freshman Class should be sixteen years of age and provided with testimonials of good moral character. Applicants not presenting certificates from accredited high schools or academies will be required to take examinations in all subjects for which they seek admission credit.

Graduates of accredited high schools or academies will be given credit for the subjects in which they are recommended. All credits are, however, subject to the test of the class room. Blanks for certificates will be furnished on application to the Registrar, and it is expected that all applicants for admission without examination will use them. To be admitted to full Freshman standing the candidate must present admission credits amounting to fifteen units of academy or high school work, the unit being understood to represent five recitations per week in one subject continued through one school year. Of these fifteen units, eight are prescribed, seven are to be chosen by the candidate. In three of the prescribed subjects—History, Foreign Language, and Science—liberal options are allowed, thus further increasing the candidate's freedom of choice.

For unconditioned entrance the following admission subjects must be presented:

English	2 units
Algebra	1 unit
Plane Geometry	1 unit
Ancient History	} one.....1 unit
Med. and Mod. Hist.	
English History	
Hist. and Gov. of U. S.	
French	} one.....2 units
German	
Greek	
Latin	
Spanish	
Physics	} one.....1 unit
Chemistry	
Botany	
Zoology	
Physiology	
Chosen by the candidate.....	7 units
15 units	

The subject presented in fulfillment of the Science requirement must have been taken in the third or fourth year of the preparatory course.

Necessarily, the candidate must present all the prerequisites of the courses for which he proposes to register.

Conditioned Entrance

Candidates who are deficient in not more than one and one-half units of the required fifteen may be admitted as conditioned Freshmen; but all entrance conditions must be removed before any student may be ranked as a Junior.

Advanced Standing

Students from other institutions of recognized collegiate rank will be admitted to such standing as seems fair in the judgment of the Faculty. The application must be accompanied by a letter of honorable dismissal, a catalogue of the institution granting it, an official statement of subjects completed, with the number of terms and the number of hours per week devoted to each subject, and a similar statement of entrance credits.

Graduates of the State normal schools who are also graduates of accredited high schools and who are especially recommended by the normal school faculties, may enter Occidental with a credit of thirty-two units, and thus be enabled to complete their college course in three years. Those who have graduated in the Academic Professional Course of the state normal schools will be allowed forty-eight units when they can in one semester's work qualify for admission to the Junior year.

Students at Large and Special Students

No student is permitted to register for less than twelve units of work in any semester, save by a special vote of the Faculty. Subject to this pro-

vision, recommended graduates of accredited preparatory schools presenting any fifteen units included in the list of admission subjects named below may be admitted as students at large, with the privilege of taking such courses as their preparation allows. Those whose preparation does not admit them to the status of students at large or of conditioned Freshmen are sometimes admitted as special students, but only in case of age and maturity. Students at large and special students are subject to the same regulations as the others. They may become candidates for a degree at any time by meeting the usual entrance requirements. On withdrawing from the institution they will be granted certificates showing the work completed.

List of Admission Subjects

Other subjects, not named below, will be accepted under proper conditions. Because of their unsettled status in the secondary schools, no attempt is here made to define them. Included in the number are Economics, Music, Agriculture and the Industrial Arts.

1. English, Elementary.....2 units
2. English, Advanced Literature.....1 or 1½ units
3. English, Advanced Composition.....½ or 1 unit
4. Algebra, Elementary.....1 or 1½ units
5. Algebra, Advanced.....½ unit
6. Plane Geometry.....1 unit
7. Solid Geometry ½ unit
8. Plane Trigonometry.....½ unit
9. Ancient History.....1 unit

10. Mediaeval and Modern History.....	1 unit
11. English History.....	1 unit
12. History and Government of U. S.....	1 unit
13. Latin, Elementary.....	2 units
14. Cicero-Sallust	1 unit
15. Vergil-Ovid	1 unit
16. Greek, Elementary	2 units
17. Homer and Greek Composition.....	1 unit
18. German, Elementary	2 units
19. German, Intermediate	1 unit
20. German, Advanced	1 unit
21. French, Elementary	2 units
22. French, Intermediate	1 unit
23. French, Advanced.....	1 unit
24. Spanish	2 units
25. Physics	1 unit
26. Chemistry	1 unit
27. Botany	1 unit
28. Zoology	1 unit
29. Physiology	1 unit
30. Physical Geography	1 unit
31. General Science	1 unit
32. Freehand Drawing.....	1 unit
33. Mechanical Drawing.....	1 unit

DESCRIPTION OF ADMISSION SUBJECTS

1. ***English, Elementary.** (2 units.) It is recommended that in the first two years' work approxi-

*Although applicants are admitted to Freshman English who are recommended by accredited schools in a minimum of two years of English, it is strongly advised that the subject be pursued for three years, or preferably four. Students whose work after admission proves notably defective in spelling, punctuation, idiom, or paragraphing will be required to remove the defect under conditions named elsewhere. Admission subject 1 (English, Elementary) contains the required minimum for entrance.

mately equal division of time be made between (a) and (b).

(a) Review of grammar; drill in spelling, punctuation, and elementary principles of composition and rhetoric.

(b) Study of the following pieces of literature. The list, in which certain substitutions may be made, is that of the College Entrance Examination Board for 1912. Students planning their courses for entrance in 1913, 1914, or 1915 should write for materially different list, which will be supplied on application.

Group I. (two to be selected): Shapeseare's *As You Like It*, *Henry V.*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II. (one to be selected): Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, Part 1; *The Sir Roger de Coverley Papers in the Spectator*; Franklin's *Autobiography*.

Group III. (one to be selected): Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II. and III., with especial attention to Dryden, Collins, Gray, Cowper and Burns.

Group IV. (two to be selected): Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V. (two to be selected): Irving's Sketch Book; Lamb's Essays of Elia; DeQuincey's Joan of Arc and The English Mail Coach; Carlyle's Heroes and Hero Worship; Emerson's Essays (selected); Ruskin's Sesame and Lilies.

Group VI. (two to be selected): Coleridge's The Ancient Mariner; Scott's The Lady of the Lake; Byron's Mazeppa and The Prisoner of Chillon; Palgrave's Golden Treasury (First Series), Book IV., with especial attention to Wordsworth, Keats and Shelley; Macaulay's Lays of Ancient Rome; Poe's Poems; Lowell's The Vision of Sir Launfal; Arnold's Sohrab and Rustum; Longfellow's The Courtship of Miles Standish; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning, Selected Poems.

2. English, Advanced Literature. (1 or 1½ units.)

(a) Shakespeare's Macbeth; Milton's Comus, L'Allegro, and Il Penseroso, or Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns. (1 unit.)

(b) Survey of great periods of English Literature, emphasizing leading facts of the life and time of authors studied during course. Long's English Literature recommended. (½ unit.)

3. English, Advanced Composition. (½ or 1 unit.)

(a) Training, theoretical and practical, in various forms of discourse: narration, exposition, description and argumentation. ($\frac{1}{2}$ unit.)

(b) Formal instruction in debate and writing orations may be added, taking the place, for credit, of 2b. ($\frac{1}{2}$ unit.)

4. Algebra, Elementary. (1 or $1\frac{1}{2}$ units.) The fundamental laws, laws of exponents, formulas of multiplication, binominal theorem with positive integral exponent, factoring, common divisors and multiples, radicals, simultaneous equations of the first degree, quadratic equations, theory of quadratic equations, the elementary presentation of roots, powers, series and logarithms.

5. Algebra, Advanced. ($\frac{1}{2}$ unit.) Simultaneous quadratic equations and equations essentially quadratic; fractional exponents, fractional and irrational equations; roots and powers of polynomials; series; binominal theorem; logarithms; and the elements of the theory of equations.

6. Plane Geometry. (1 unit.) The general properties of plane figures, the circle and the measure of angles, areas, regular polygons, and the measure of the circle; the usual demonstrated theorems and original propositions.

7. Solid Geometry. ($\frac{1}{2}$ unit.) Relations of lines and planes to space; the properties of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; original propositions.

8. Plane Trigonometry. ($\frac{1}{2}$ unit.) The development of the general formulae of elementary plane trigonometry; the theory and use of logarithms; the numerical solution of plane triangles and of trigonometrical problems in heights and distances.

9. Ancient History. (1 unit.) A year's work in the history of the Eastern Nations, Greece and Rome, to the establishment of Charlemagne's empire. In Grecian history special attention should be given to the period from the fifth to the second century B.C., and in Roman history to the period from the conquest of Italy to the establishment of Christianity. Outlines, maps, and papers on special topics should be prepared, and should be presented at the time of the examination.

10. Mediaeval and Modern History. (1 unit.) A year's work in European history from Charlemagne's time to the present. Special attention should be given to mediaeval institutions, the struggle between the empire and the Papacy, the Reformation, and the French Revolution. About one-fifth of the work should be put upon the nineteenth century. Outlines, maps and papers upon special topics should be prepared, to be presented at the time of the examination.

11. English History. (1 unit.) A year's work in the history and government of England. Maps, outlines and special reports should be presented at the time of the examination.

12. History and Government of the United States. (1 unit.) A year's study beyond the grammar

school, with considerable work in outlines, papers, notes and reports, to be presented at the time of the examination. The candidate for admission should have a good working knowledge of the Constitution of the United States, and should be familiar with the works of reference on American history found in good high school libraries.

13. Latin, Elementary. (2 units.) (a) Accurate knowledge of all the regular inflections and of the common irregular inflections, familiarity with the ordinary rules of syntax and with the vocabulary of the author read, together with the ability to use this knowledge in writing simple Latin prose. (b) An amount of reading not less than the first four books of Caesar's Gallic War, which amount may be chosen from any part of the following: Caesar (Gallic War and Civil War), Nepos (Lives). Ability to translate from the easier portions of the text at sight.

14. Cicero-Sallust. (1 unit.) The amount read must equal Cicero's orations against Catiline, for the Manilian Law and for the Poet Archias. Only the last two are prescribed. The remainder may be chosen from Cicero (Orations, Letters and De Senectute) and Sallust (Catiline and Jugurtha). Sight translation, and composition based on the authors read, form an integral part of the requirement. requirement includes sight translation from the

15. Vergil-Ovid. (1 unit.) The reading must equal in amount the first six books of Vergil's Aeneid. Books I. and II., together with either IV.

or VI., are prescribed. The remainder may be chosen from Vergil (*Bucolics*, *Georgics*, *Aeneid*) and Ovid (*Metamorphoses*, *Fasti*, *Tristia*). The same authors, with composition based on the authors, previously read. Thorough training in the elementary principles of prosody is assumed.

16. Greek, Elementary. (2 units.) The requirement includes a knowledge of prose forms and prose syntax, a good Xenophon vocabulary, and some knowledge of English derivatives. Forms and syntax are usually sufficiently drilled upon, but generally not enough attention is given to vocabulary and English derivatives. White's First Book, Xenophon's *Anabasis*, I.-IV., and Pearson's *Composition*, Parts I.-II., represent the work to be covered.

17. Homer and Greek Composition. (1 unit.) Homer's *Iliad* I.-III. and Pearson's *Prose Composition* are the minimum of preparation. In Homer, a knowledge of Homeric grammar and the prose equivalents of common poetical words, where there are such, and the ability to read Homer not only metrically but with expression, are essential. Some attention should also be given to character study and to Homeric life. In composition, the ability to do easy prose based on Xenophon is required.

18. German, Elementary. (2 units.) This requirement covers two years of high school German. A thorough knowledge of the elements of German grammar is expected and the ability to translate ordinary German into English at sight or English into German. A fair knowledge of poetry and evidence of solid composition work is also required.

19. German, Intermediate. (1 unit.) The ability to read at sight ordinary German prose or poetry, to translate easy English into German, to answer simple questions in German, and to give evidence of familiarity with the essentials of German grammar, including particularly the rules concerning the declension of adjectives and nouns, the conjugation of verbs and word order. Amount of reading required, about 400 pages.

20. German, Advanced. (1 unit.) German prose reading of the more difficult selections from standard authors. Poems memorized, composition work which leaves no doubt as to the thorough grammatical drill of the applicant. The candidate must be able to write in German, short, original themes upon assigned topics. Not less than 700 pages of good modern literature required.

21. French, Elementary. (2 units.) The essentials of grammar, including the regular and the most common irregular verbs, forms and positions of pronouns. The reading of at least 250 pages of modern prose. Easy composition and dictation. Conversation on the text read. Particular stress should be laid on correct pronunciation.

22. French, Intermediate. (1 unit.) Review of the essentials of grammar. Study of irregular verbs and the study of advanced grammar. Composition, written and oral. Reading of about 400 pages of prose by standard modern authors and one or two modern plays. Written analysis and criticisms on text read and conversation on the same. Sight read-

ing and translation. Special attention should be paid to the correct use of idioms.

23. French, Advanced. (1 unit.) The reading of about 800 pages of classical and modern French works by standard authors. The writing of numerous short themes either on topics of every day life or on the text read. Frequent discussions in French on the text read, and advanced composition.

24. Spanish. (2 units.) Thorough work in grammar, with especial attention to verb drill, including the subjunctive. Sight reading and translation of about five hundred pages, including some poetry. Easy Spanish composition and original short themes.

25. Physics. (1 unit.) The requirement represents at least one daily exercise throughout the year (preferably the last) in academy or high school, and includes elementary mechanics, heat, sound, light, electricity and magnetism. There should be close relation between class work, lecture, demonstration work and laboratory work. Emphasis should be placed on principles, application of principles to daily life, and ability to solve problems and to think. The class work should include the study of some standard, up-to-date text; such, for example, as Millikan and Gale's First Course in Physics. In the laboratory the student should individually perform with some accuracy at least thirty-five typical experiments, and should present at entrance a well-written note book, properly indexed, duly signed by the instructor.

26. Chemistry. (1 unit.) The completion of an elementary course in general chemistry is required, with practical work in the laboratory. The work is represented by that given in Brownlee's First Principles of Chemistry and Laboratory Manual. Note books, satisfactory to the head of the department, may also be required.

27. Botany. (1 unit.) Applicants for credit in this subject must show ability, obtained during a full year's work of five exercises per week, to solve problems in the field and laboratory. It is not deemed sufficient to simply know terms. The applicant must be able to give intelligent explanations for local conditions. A well-kept note book signed by the instructor must accompany the application. The pupil must have a general knowledge of plant morphology and physiology and also be able to recognize readily the common orders of flowering plants. The following texts or their equivalents suggest the scope of the work required: Osterhout's Experiments, Bergen's Elements of Botany.

28. Zoology. (1 unit.) The prerequisites for credit in this subject correspond in time and method to those called for in Botany. The scope of the work is suggested by the text of Linville and Kelly.

29. Physiology. (1 unit.) Credit will not be given for elementary physiology and hygiene done in the grammar grades. The work must at least have covered the equivalent of Martin's Human Body. Four hours per week must have been spent in a well organized laboratory. Candidates must present note books signed by an instructor.

30. Physical Geography. (1 unit.) This course should have seven periods per week for one year, of which four should be arranged as double laboratory periods. The subject as presented in a text book should be supplemented by laboratory work, including experiments and map study. Records of this work should be kept in a note book, which should be presented as a part of the entrance requirement. The work should include the commonly accepted divisions of the subject, viz.: mathematical geography, the atmosphere, the ocean, and land forms.

31. General Science. (1 unit.) The requirement represents at least five forty-five-minute exercises a week for one year, of which two-fifths or more should be laboratory work. A record should be made of at least thirty-five experiments individually performed and the note book presented at entrance.

It is suggested that the course be based upon physical principles so related to the biological that one science will dovetail into others which are related in principles and applications. The course may well include such common basic phenomena and facts as: Oxidation; physical and chemical changes; composition of air, water, food, rocks and soil; physiological processes of life, growth and decay; hygiene and sanitation with reference to bacteria in the home, agriculture, disease and the industrial arts; uses and sources of foods; cycle of organic life and interdependence of plants, animals and man; influence of climatic, seasonal and geologic changes; relation of the earth to heavenly bodies.

32. Freehand Drawing. (1 unit.) The requirement represents a daily exercise of forty-five minutes for two years; the credit allowed, however, must be based on the amount and quality of the work accomplished, which must be submitted for examination.

The work should consist of studies of the principles of light and shade and perspective from geometric models, sphere, cube, prisms, etc., and other simple objects of similar form. They should be treated both singly and in groups.

33. Mechanical Drawing. (1 unit.) The requirement represents the work usually covered with a daily exercise of forty-five minutes throughout one year. It should consist of exercises adapted to develop neatness and accuracy in the use of drawing instruments, geometrical figures and curves, free hand lettering, and other exercises leading up to the technical courses. The student's work must be submitted for examination.

Requirements for Graduation

Requirements for Graduation

No student is permitted to graduate who has not spent at least one year in resident study at the College.

The unit employed in reckoning college credits is one exercise per week in one subject continued through a semester. One hundred and twenty-eight of these units are required for graduation, sixty-eight to be completed normally in the Freshman and Sophomore years, and sixty in the Junior and Senior.

Courses of Study

The courses of study have been arranged with three objects in view:

1. General culture.
2. Special training in particular lines.
3. Free election on the part of the student of such subjects as harmonize best with his individual purpose.

To meet the requirement of general culture, certain subjects are prescribed in all courses leading to a degree, viz.:

Physical Training.....	4 units
Biblical Literature	8 units
Rhetoric and Composition.....	6 units
English Literature.....	6 units
Mathematics	3 units

Science	8 units
History	6 units
Psychology	3 units
Logic	3 units
Ethics	3 units

Either before or after entrance, students in Group I. must have the equivalent of one college year, and students in all other groups the equivalent of two college years, of French or German.

To meet the requirement of special training, every student is expected to choose two departments in which to pursue advanced or Upper Division courses. Certain prerequisites, found among the Lower Division courses and extending ordinarily through the Freshman and Sophomore years, must first be completed; after which, Upper Division courses amounting to 18 units in the two departments chosen must be completed before graduation. The dual groups from which this selection may be made are eleven in number, each furnishing the characteristic of one of the larger groups outlined on pages — to —.

To meet the requirement of free election, every student is permitted to select a number of subjects, varying somewhat in amount according to the group chosen, and subject only to the necessary sequence of courses within the several departments.

Provided all other requirements for graduation be fulfilled, each of the groups outlined on the following pages leads to one of two degrees, viz.:

Groups I.-VIII., Bachelor of Arts.

Groups IX.-XI., Bachelor of Science.

Synopsis of Groups

SYNOPSIS OF GROUPS

Explanation

Before receiving the diploma of Occidental College, one of the following groups must be completed, together with electives sufficient to bring the total of college credits up to 128 units. An admission credit allowed to take the place of a college requirement is not to be deducted from this number unless it is in excess of the 15 units of admission credit required for entrance. When allowed to be deducted, which is only under definitely prescribed conditions, a year subject, taken five times a week in the High School, counts for 3 College units.

The subjects from Physical Training down to Psychology inclusive are mostly taken in the Freshman and Sophomore years. In Biblical Literature, however, a two-hour course is required of every student, either the first or second semester of each year. Logic and Ethics belong in the last two years of the course. For further explanation of the courses of study, see page 47.

Group I.

Latin-Greek

Special Prerequisites: Admission subjects 13 to 17, or Latin B and Greek B.

	Units
Latin 12	
Lower Division	
Greek 9	
Lower Division	
Latin-Greek 18	
Upper Division	
Physical Training 4	
Biblical Literature 8	
English 12	
French or German *8	
Mathematics †3	
Natural Science 8	
History 6	
Psychology 3	
Logic 3	
Ethics 3	

*Not required of those who present two years of admission credit in French or German.

†Not required of those who present Solid Geometry or Trigonometry for entrance.

**Group II.
French-German**

No Special Prerequisite

	Units
French *14 Lower Division	
German *14 Lower Division	
French-German 18 Upper Division	
Physical Training 4	
Biblical Literature 8	
English 12	
Mathematics †3	
Natural Science 8	
History 6	
Psychology 3	
Logic 3	
Ethics 3	

**Group III.
English-Latin**

Special Prerequisites: Admission subjects 13 to 15, or Latin B.

	Units
English 12 Lower Division	
Latin 12 Lower Division	
English-Latin 18 Upper Division	
Physical Training 4	
Biblical Literature 8	
French or German §14	
Mathematics †3	
Natural Science 8	
History 6	
Psychology 3	
Logic 3	
Ethics 3	

*Or two years of admission credit and one year in college.

†Not required of those who present Solid Geometry or Trigonometry for entrance.

§Or two college years in addition to the minimum of foreign language required for entrance.

Group IV. English-Greek

Special Prerequisites: Admission subjects 16 and 17, or Greek B.

	Units
English Lower Division	12
Greek Lower Division	9
English-Greek Upper Division	18
Physical Training.....	4
Biblical Literature	8
French or German.....	*14
Mathematics †	3
Natural Science	8
History	6
Psychology	3
Logic	3
Ethics	3

Group V. English-French

No Special Prerequisite

	Units
English Lower Division	12
French Lower Division	§14
English-French Upper Division	18
Physical Training.....	4
Biblical Literature	8
Mathematics †	3
Natural Science.....	8
History	6
Psychology	3
Logic	3
Ethics	3

*Or two college years in addition to the minimum of foreign language required for entrance.

†Not required of those who present Solid Geometry or Trigonometry for entrance.

§Or two years of admission credit and one year in college.

**Group VI.
English-German**

No Special Prerequisite

	Units
English Lower Division	12
German Lower Division	*14
English-German Upper Division	18
Physical Training.....	4
Biblical Literature	8
Mathematics	†3
Natural Science.....	8
History	6
Psychology	3
Logic	3
Ethics	3

**Group VII.
English-History**

No Special Prerequisite

	Units
English Lower Division	12
History Lower Division	12
English-History Upper Division	18
Physical Training.....	4
Biblical Literature	8
French or German.....	§14
Mathematics	†3
Natural Science.....	8
Economics	6
Psychology	3
Logic	3
Ethics	3

*Or two years of admission credit and one year in college.

†Not required of those who present Solid Geometry or Trigonometry for entrance.

§Or two college years in addition to the minimum of foreign language required for entrance.

**Group VIII.
History-Economics**

No Special Prerequisite

	Units
History 12	
Lower Division	
Economics 6	
Lower Division	
History-Economics 18	
Upper Division	
Physical Training..... 4	
Biblical Literature 8	
English 12	
French or German.....*14	
Mathematics†3	
Natural Science..... 8	
Psychology 3	
Logic 3	
Ethics 3	

**Group IX.
Mathematics-Physics**

**Special Prerequisite: Ele-
mentary Physics.**

	Units
Mathematics\$15	
Lower Division	
Physics 12	
Lower Division	
Mathematics-Physics.. 18	
Upper Division	
Physical Training..... 4	
Biblical Literature 8	
English 12	
French or German.....*14	
History 6	
Chemistry 10	
Psychology 3	
Logic 3	
Ethics 3	

*Or two college years in addition to the minimum of foreign language required for entrance.

†Not required of those who present Solid Geometry or Trigonometry for entrance.

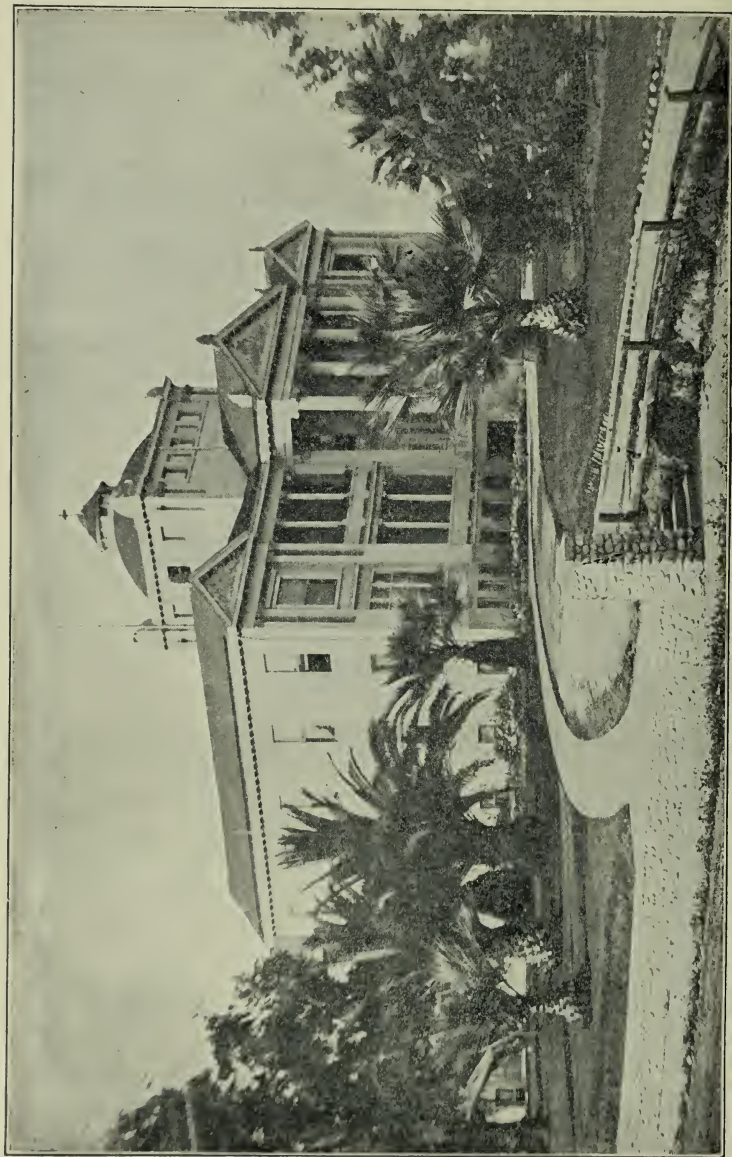
§Six units less for those who present Solid Geometry and Trigonometry for entrance.

Group X. Chemistry-Zoology	Group XI. Chemistry-Physics
Special Prerequisite: Elementary Chemistry.	Special Prerequisites: Elementary Chemistry and Elementary Physics.
Units Chemistry 13 Lower Division	Units Chemistry 13 Lower Division
Zoology 10 Lower Division	Physics 12 Lower Division
Chemistry-Zoology 18 Upper Division	Chemistry-Physics 18 Upper Division
Physical Training..... 4	Physical Training..... 4
Biblical Literature 8	Biblical Literature 8
English 12	English 12
French or German.....*14	French or German.....*14
Physics 8	Mathematics†18
Mathematics†9	History 6
History 6	Psychology 3
Psychology 3	Logic 3
Logic 3	Ethics 3
Ethics 3	

*Or two college years in addition to the minimum of foreign language required for entrance.

†Six units less for those who present Solid Geometry and Trigonometry for entrance.

Departments of Instruction



THE MEN'S DORMITORY

Departments of Instruction

Biblical Literature

Professor Kellogg

1. Pentateuch.

The five books of Moses are studied with a view to the mastery of the facts recorded: the creation of the world and of man, the entrance of sin, the beginnings of redemption, of national life, of the covenant people. The Mosaic Law is studied in relation to the "better covenant" to follow.

2 hours, first semester.

2. Historical Books of the Old Testament.

This course is a continuation of course 1, and carries the student through the period of the Conquest, the Commonwealth and into the time of the Kingdom.

2 hours, second semester.

3. Pauline Epistles.

Advanced work is undertaken in synthetic study of the Epistles. Analysis of material and exposition of fundamental Christian truth as held historically by the church is undertaken from the text of the Epistles.

2 hours, second semester.

4. The Prophets.

Representative prophets, both major and minor, are studied with particular reference to the political situation of the times in which they lived. The immediate message and the messianic message are discriminated. The prophets were the statesmen of the Theocracy.

2 hours, first semester.

7. Life of Christ.

This study of the Gospels is designed to cover not merely the mechanical outline of the life of our Lord, but deeper teachings of His ministry and message, His death and resurrection.

2 hours, one semester.

8. The Acts and the Earlier Epistles.

The transition from the period covered by the Gospels to the period when by means of Epistles the churches are instructed in mature Christian truth is covered by the Acts. This book and certain of the earlier Epistles are studied with a view to the mastery of facts which are formative in the beginning of church history.

2 hours, one semester.

11. The Poetry of the Bible.

This course involves the study of songs commemorative of deliverance from enemies, the psalms of historical summary, the messianic psalms, and songs of religious experience. Omitted in 1912-1913.

2 hours, one semester.

12. The Bible and Historic Faith.

This course assembles the testimony of the Scriptures on the fundamental teachings of the church in all ages. The doctrines of God, of Man, of Sin and Redemption are studied as they lie imbedded in the Bible records. Omitted in 1912-1913.

2 hours, one semester.

Biology

Professor Esterly

Assistant Professor Cook

ZOOLOGY

LOWER DIVISION COURSES

1. Principles of Zoology.

The scope of this course is indicated by the name. Systematic zoology, morphology and physiology are covered, and topics of general interest as well as facts and theories connected with various lines of thought in the science are taken up from time to time. Instruction is by means of lectures and written quizzes and papers upon assigned topics.

3 hours, throughout the year (6 units).

Professor Esterly.

2. General Zoology.

A laboratory course, in which invertebrate types are studied, and the shark among vertebrates. Course 2 must be taken by all who expect to pursue advanced courses in zoology.

Prerequisite, course 1 or its equivalent completed or in progress.

6 hours, first semester (2 units).

Professor Esterly.

3. General Zoology.

A laboratory course, intended to give some insight into vertebrate embryology, histology and anatomy. The development of the frog, toad, or salamander is followed, and the salamander and frog, one or both, are used in dissection.

Prerequisite, course 2.

6 hours, second semester (2 units).

Professor Esterly.

7. Field Zoology.

Principally a laboratory or field course, the aim of which is to enable students to become acquainted with the higher vertebrates, especially the birds inhabiting this region. Not given to less than five students, nor more than ten.

Prerequisite, at least Zoology 1.

1 afternoon in the field weekly, second semester (1 unit).

Professor Esterly.

UPPER DIVISION COURSES

4. Anatomy of Vertebrates.

Lectures and laboratory. The course aims to cover the higher vertebrate groups in a comprehensive way. The cat is the principal subject of dissection.

Prerequisite, courses 1, 2 and 3.

6 hours in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Professor Esterly.

5. Cytology and Histology.

Lectures and laboratory. The animal cell is studied in its various phases of activity, and the microscopical anatomy of various tissues and organs of vertebrates is taken up. There is constant practice in the use of reagents and stains, and in the preparation of mounts and series of sections for the microscope. Not given in the same year with course 6. Omitted in 1912-1913.

Prerequisite, courses 1, 2 and 3.

9 hours in the laboratory and 2 hours of lectures or recitations, second semester (5 units).

Professor Esterly.

6. Embryology.

Lectures and laboratory. The development of vertebrates is studied by means of a text-book supplemented by lectures. There is constant practice in the laboratory in embryological methods, the principal objects of study being the chick and the pig. Not given in the same year with course 5. Given in 1912-1913.

Prerequisite, courses 1, 3 and 4.

9 hours in the laboratory and 3 hours of lectures or recitations per week, second semester (6 units).

Professor Esterly.

BOTANY**1. Morphology of Cryptogams.**

A progressive study of the lower plants based on the structure of the reproductive organs and processes.

Prerequisite, elementary chemistry.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, first semester (4 units).

Assistant Professor Cook.

2. Flowering Plants.

A study of the structure and physiology of the higher plants.

Prerequisite, course 1.

3 consecutive hours twice a week in the laboratory and 2 hours of lectures or recitations, second semester (4 units).

Assistant Professor Cook.

Chemistry

Professor Chandler

Assistant Warren R. Schoonover

Assistant Day Ehrenfeld

LOWER DIVISION COURSES**1. General Inorganic Chemistry.**

Section I. for those without, and section II. for those with entrance Chemistry. These sections meet together twice a week for lectures, and once

a week separately for recitations and special instruction. Smith: Chemistry for Colleges.

3 hours, throughout the year (6 units).

2. General Chemistry Laboratory.

Laboratory work for section I. of course 1. Smith and Hale: Laboratory Manual of General Chemistry.

3 hours, throughout the year (2 units).

3. Qualitative Analysis.

Laboratory work for section II. of course 1. Lectures and recitations upon the theory and practice of qualitative analysis given during the separate meetings of section II. and credited under course 1. Stieglitz: Qualitative Chemical Analysis. Volumes 1 and 2.

6 hours, throughout the year (4 units).

4. Quantitative Analysis.

Practice in the general methods of gravimetric, volumetric and electrolytic determinations, with occasional lectures upon the principles involved. Lincoln and Walton: Elementary Quantitative Analysis.

Prerequisite, course 3.

9 hours, either semester (3 units).

5. Quantitative Analysis.

Continuation of course 4, with applications to the analysis of industrial products. Same text.

Prerequisite, course 4.

9 hours, either semester (3 units).

UPPER DIVISION COURSES**6. Organic Chemistry.**

Lectures and recitations upon the chemistry of the aliphatic and aromatic compounds. Perkin and Kipping: Organic Chemistry.

Prerequisite, course 4, but may be taken as a Lower Division course with courses 1 and 2 as the only prerequisites.

2 hours, throughout the year (4 units).

7. Organic Chemistry Laboratory.

Preparation and reactions of typical organic compounds. Jones: Laboratory Outline of Organic Chemistry.

Prerequisite, course 6 completed or in progress.

3 or 6 hours, throughout the year (2 or 4 units).

8. Physical Chemistry.

Lectures and recitations in the field of physical and electro chemistry.

Prerequisite, courses 4 and 6.

2 hours, first semester (2 units).

9. Industrial Chemistry.

Lectures and recitations from standard texts. Readings and reports from the literature.

Prerequisite, courses 4 and 6.

2 hours, second semester (2 units).

10. Advanced Chemistry Laboratory.

Special methods of quantitative analysis, including water, gas, soil, feed, food and electrolytic

analysis; assaying; organic and inorganic preparations; physical chemistry measurements. The student may choose from these subjects and so fit himself for technical or research work.

Prerequisite, course 5.

6 or 9 hours, either semester (2 or 3 units).

Economics and Sociology

Professor Stevenson

Courses 1 and 3 are recommended to students who expect to take only one year's work in this department; but such students may register for courses 1 and 2.

Courses 1 and 2 are intended primarily for Juniors and Seniors, but they are open to Sophomores who expect to take upper division courses in Economics.

LOWER DIVISION COURSES

1. Economics.

An introductory course dealing with essential facts and principles, and prerequisite to all other courses. The text book will be followed in the order of topics and the general manner of treatment; but full and free discussion of controverted points will be required, together with careful reading of standard authorities, and preparation of papers on assigned topics.

3 hours, first semester.

2. Money and Banking.

The fundamental principles of monetary theory, the history and the practice of banking, and discussion of current problems and legislation.

Text books, lectures and papers.

Prerequisite, course 1.

3 hours, second semester.

UPPER DIVISION COURSES

History 1 or 2 is prerequisite to all upper division courses in this department. Additional prerequisites are stated below.

Courses 3, 4, and 5 will be given in 1912-1913.

3. Sociology.

An introduction to sociological theory, with incidental discussion of the practical problems relating to social reforms and with constant reference to the influence of Christianity on the development of modern society. Lectures and assigned readings.

Prerequisite, course 2; but courses 2 and 3 may be taken in the reverse order, in which case 2 will be counted as an upper division course and 1 and 3 as its prerequisite.

3 hours, first semester.

4. Practical Sociology.

The application of sociological principles to charity, criminology, and constructive social work. Lectures, the literature of the subject, and personal investigation. Los Angeles offers ample opportunity for field work in the many institutions and conditions that illustrate nearly every

phase of social health and social disease.

Prerequisite, course 3.

3 hours, second semester.

5. Public Finance.

A study of public revenue and expenditure and of financial administration, with special reference to the principles and practice of taxation in the United States.

Prerequisite, courses 1 and 2.

3 hours, second semester.

6. Modern Industrialism.

A critical study of the problems arising from present industrial conditions—the relation of labor and capital, combinations, etc.—and of current questions of special interest and importance.

Prerequisite, course 5.

3 hours, one semester.

7. Advanced Economics.

A detailed examination of selected subjects treated less fully in course 1. Special attention is given to topics that bear on the relation between the present social order and the distribution of wealth. Text books and lectures.

Prerequisites, courses 1 and 2.

3 hours, one semester.

Education

Professor Cook

1. History of Education, Earlier Period.

The Biblical idea of education. Educational the-

ory and practice in Greece and Rome, and in the leading nations of Europe during the Middle Ages. Lectures. Monroe's History of Education. Laurie's Historical Survey of Pre-Christian Education. Davidson's Education of the Greek People. To alternate with course 2.

Prerequisite, Junior standing.

3 hours, first semester.

2. History of Education, Later Period.

Educational theory and practice in the more advanced nations of modern times. Lectures. Monroe's History of Education. Quick's Educational Reformers. Supplementary reading. To alternate with course 1.

Prerequisite, Junior standing.

3 hours, first semester.

3. Principles of Education.

A study of the fundamentals and principles of education. The subject is considered in relation to the mental and physical sciences. Problems of the pupil, of the teacher and of the school are discussed, and underlying psychological theories are investigated. Lectures. Henderson's Principles of Education. Horne's Psychologic Principles of Education. Harris's Psychologic Foundations. Supplementary reading. To alternate with course 4.

Prerequisite, Junior standing.

3 hours, second semester.

4. Philosophy of Education.

The course will include a study of the aim, the

meaning and the individual and social aspects of education, educational values, the curriculum, correlation of studies, interest, attention, the art of study. Lectures. Horne's Philosophy of Education. Supplementary reading. To alternate with course 3.

Prerequisite, Junior standing.

3 hours, second semester.

English

Professor Cooper

Associate Professor Odell

Instructor Paul

Assistant Rosalind J. Chase

LOWER DIVISION COURSES

A. Elementary Composition.

To remove deficiencies in the English of the preparatory course. Must be passed and the fact recorded before any student will be ranked as a Junior. May be passed in any one of three ways: (a) By showing proficiency in the subject in connection with the work of English 1 or 2. (b) By making satisfactory improvement in connection with the work of English 1 or 2. (c) By taking a course in the subject. Any student failing to pass the requirement in one of these ways before the middle of the Sophomore year will be registered in English A for the following semester.

1 hour, second semester (no credit).

Mr. Paul.

1. Rhetoric and Composition.

Based on literary masterpieces. Description and narration, first semester; exposition, second semester. Daily practice in oral composition. Required in all courses, Freshman year.

2 hours, throughout the year (4 units).

Associate Professor Odell.

2. Advanced Composition.

Exposition and argument. Study of models and text. Daily practice in the preparation and presentation of material. Required in all courses.

Prerequisite, course 1.

2 hours, first semester.

Associate Professor Odell.

3. History of the English Language.

Historical English grammar, with illustrative selections from Old and Middle English Literature.

2 hours, second semester.

Associate Professor Odell.

5. Early Nineteenth Century Prose.

Lamb, DeQuincey, Landor, Macaulay. A study of representative works of these writers, with special reference to qualities and varieties of prose style. Designed particularly to fit students for the more advanced courses in literature. Required alternately with course 6.

3 hours, first semester.

Professor Cooper.

6. Victorian Prose Writers.

Carlyle, Ruskin, Arnold, Stevenson. Required

alternately with course 5. Omitted in 1912-1913.
3 hours, first semester.

Professor Cooper.

7. Victorian Poets.

Tennyson, Browning, Rossetti, Morris, Swinburne. Emphasis on the elements of poetic form and poetic criticism. Introductory to more advanced courses in poetry. Required in all courses; sophomore year.

3 hours, second semester.

Professor Cooper.

8. Public Speaking.

Practice in declamation and other forms of public address, with some study of the principles of vocal expression.

Prerequisite, course 2.

2 hours, first semester.

Associate Professor Odell.

9. Oral Debate.

Written and oral work. Analysis, brief-making, and debating. The class is divided into two sections, each section debating once a week on a question previously assigned.

Prerequisite, course 2.

2 hours, second semester.

Associate Professor Odell.

UPPER DIVISION COURSES

Courses 1, 2 and 7, together with either 5 or 6 are prerequisite to all upper division courses.

11. Early Nineteenth Century Poets.

Wordsworth, Coleridge, Byron, Shelley, Keats.
A study of the romantic movement of the early part of the nineteenth century.

3 hours, second semester.

Professor Cooper.

12. Shakespeare.

The principal plays read chronologically, with special attention to the development of Shakespeare's mind and art.

3 hours, first semester.

Professor Cooper.

13. Earlier Nineteenth Century Novelists.

Jane Austen, Scott, Dickens, Thackeray, George Eliot. Given alternately with course 21.

3 hours, first semester.

Professor Cooper.

14. The Short-Story.

A course in Short-Story writing, based on a study of the masterpieces of the art, with special reference to principles of construction.

2 hours, second semester.

Professor Cooper.

15. The Elizabethan Age and the Puritan Period.

A course in the poetry of the period, with emphasis on the work of Spenser and Milton. Given alternately with course 17.

3 hours, second semester.

Professor Cooper.

16. Restoration and Eighteenth Century Literature.

A survey of the leading poets and prose writers from Dryden to Burns, with emphasis on the rise of the romantic school. Omitted in 1912-1913.

3 hours, second semester.

Professor Cooper.

17. Milton.

The study of "Paradise Lost." Given alternately with course 15. Omitted in 1912-1913.

2 hours, first semester.

Professor Cooper.

18. Thesis.

In connection with any of the upper division courses, the student may, with the permission of the instructor, write a thesis embodying some piece of research.

1 unit, either semester.

Professor Cooper.

Associate Professor Odell.

19. Anglo-Saxon.

First semester: The outlines of Anglo-Saxon grammar. Bright's Anglo-Saxon Reader is used.

Second semester: Beowulf.

During the year, English literature from the beginning to the Norman Conquest.

3 hours, throughout the year (6 units).

Associate Professor Odell.

20. Chaucer.

A detailed study of a large number of the Canterbury Tales and other poems.

3 hours, second semester.

Associate Professor Odell.

21. Later Nineteenth Century Novelists.

Meredith, Hardy, Stevenson, Howells, Mrs. Humphrey Ward, DeMorgan. Given alternately with course 13. Omitted in 1912-1913.

3 hours, first semester.

Professor Cooper.

22. Browning.

The study of the poetry of Robert Browning.

2 hours, first semester.

Professor Cooper.

French

Professor Bell

LOWER DIVISION COURSES

1. Elementary.

First semester: Thorough drill in fundamental rules of grammar with daily oral and written exercises. Reading short stories and conversation on text read.

Second semester: Drill on irregular verbs, idioms, elements of syntax. Reading of prose by modern authors. Easy composition. Special attention is given to acquiring a vocabulary. French being a living language, great attention is paid in this and the following courses to correct pronunciation and accentuation.

4 hours, throughout the year (8 units).

2. Modern Prose and Dramatic Writers.

First semester: General review of grammar, dic-

tation in French, written and oral composition. Reading: Short stories by modern authors, at least one modern play. Conversation based upon the texts read.

Second semester: Written and oral composition. Reading: one or two modern plays, modern prose. Written resumés in French and practice in conversation.

Prerequisite, admission subject 21 or course 1.
3 hours, throughout the year (6 units).

UPPER DIVISION COURSES

3. Composition and Classics.

First semester: Advanced composition. Reading: prose by Sand, Balzac, Rostand and others. Themes and conversation on works read. Sight translation of prose. Classics by Molière, Racine and others.

Second semester: Advanced composition. Reading: History of France, conducted in French, with written exercises on assigned topics.

Prerequisite, course 2.

3 hours, throughout the year (6 units).

4. History of French Literature.

This course is intended to give the student ample practice in French conversation while affording a bird's-eye-view of what France has done and is doing in the world of thought. Outside reading of some of the works of certain authors, with written reports, will be required. Difficult composition and a review of grammatical principles

will be given from time to time. Not to be given in the same year with course 5.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

5. French Literature in the Nineteenth and Twentieth Centuries.

Lectures, themes and collateral reading. Course conducted in French. Not to be given in the same year with course 4. Given in 1912-1913.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

Geology and Minerology

Professor Fiske

Assistant Bruce Dill

1. General Geology; Dynamical and Structural.

Lectures and recitations.

Prerequisite, elementary courses in Physiography or General Science or Physics, in Chemistry, and in Botany or Zoology.

3 hours, first semester.

2. General Geology, Historical.

Lectures and recitations.

Prerequisite, course 1.

3 hours, second semester.

3. Field Geology.

This course involves a careful study of the geological condition in and around Highland Park, extending both to the mountains and to the sea;

the drift, dip and strike of rock-strata and the various processes now at work to change the surface of the land. The work includes the construction of topographical maps of the region, plottings of the course and gradient of streams and sectional maps of the out-crop of strata in more specific cases. Students are required to present reports showing the results of their observations in the field, while photographs of field observations, lantern slides, maps, diagrams, etc., etc., are used extensively in class room work. This course to accompany course 1.

3 hours, first semester (1 unit).

4. General Paleontology.

The work of this course is conducted both in the field and laboratory, and is accompanied by occasional lectures and recitations. It involves a study and plotting of the different geological horizons; the development of life on the earth from its beginning to the present; the geological and geographical relationship of the various fossil forms, both of plants and animals, together with the characteristic and dominant species of the different divisions of geological time. Constant use is made of the College collection of fossils, while occasional excursions are made to fossil-bearing regions for the purpose of studying them as they occur in the earth. This course to accompany course 2.

3 hours, second semester (1 unit).

5. Mineralogy, Physical and Descriptive.

Lectures and laboratory. The course involves

a study of elementary crystallography, the physical and chemical characters of minerals, a microscopical study of mineral sections and the descriptive study of typical minerals found in the College collection. It also involves a careful preparation of mineral and rock sections and the use of the polarizing microscope. The object is to familiarize the student with the common minerals about him and to enable him to recognize them on coming in contact with them in the field.

Prerequisite, elementary course in chemistry.

1 hour lecture and recitation and 3 hours laboratory, first semester (2 units).

6. Mineralogy, Determinative and Economic.

Lectures and laboratory. The lectures of this course involve a study of the origin, characteristics and distribution of metalliferous veins; the useful metals, their occurrence, relation to each other and the processes employed in obtaining them from their ores; as well as the occurrence, preparation and uses of numerous products of commercial importance, such as the common fuels, marbles, slates, clays, borax and salt. The time in the laboratory is devoted to the determination and classification of unknown mineral species, many of which are picked up by the student either on special excursions or in his daily walks.

Prerequisite, course 1 or its equivalent.

1 hour lecture and recitation and 3 hours laboratory, second semester (2 units).

The work in geology and mineralogy extends through the year, during which time special atten-

tion is given to the reading of current geological literature, while each semester a carefully prepared paper on some historical or economic subject is required of the student.

German

Professor Moll

LOWER DIVISION COURSES

1. Elementary German.

The essentials of grammar; drill in pronunciation; practice in speaking and writing German; dictation and translation at hearing; reading at sight; reading of short, interesting stories.

4 hours throughout the year (8 units).

2. Modern Prose and Poetry.

Selection from modern prose writers, poems and a drama from either Lessing or Schiller; composition and conversation.

Prerequisite, admission subject 18 or course 1.

3 hours, throughout the year (6 units).

UPPER DIVISION COURSES

3. The Classical Writers of the Eighteenth Century.

Dramas of Lessing, Schiller and Goethe; Lyrics and ballads of Schiller and Goethe. Composition and conversation.

Prerequisite, course 2.

3 hours, throughout the year (6 units).

5. The Drama of the Nineteenth Century.

Selected dramas of Kleist, Grillparzer, Hebbel, Hauptman, Suderman, and others. Advanced composition. To alternate with course 6. Given in 1912-1913.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

6. The Novel of the Nineteenth Century.

Representative novels of Hauff, Freytag, Spielhagen, Heyse, Keller, and others. Advanced composition. To alternate with course 5. Omitted in 1912-1913.

Prerequisite, course 3.

3 hours, throughout the year (6 units).

Greek

Professor Higgins

Students may enter this department with three years of preparatory Greek, with two years or with none. It is possible for the last-named to make Greek the minor subject of their group, but not the major.

LOWER DIVISION COURSES

A. Elementary.

(a) Beginning Book, Goodwin's Grammar.

(b) Xenophon's Anabasis I.-IV., with sight reading in the Gospel of John (White).

This course aims to cover thoroughly the work

of the first two years of preparatory Greek and is intended for those who enter without matriculation credit in the subject.

4 hours, throughout the year (8 units).

B. Lysias and Homer.

(a) Easy selections from Lysias, or an equivalent.

(b) Homer's Iliad I.-III. Metrics.

Prerequisite, admission subject 16 or course A.

3 hours, throughout the year (6 units).

1. Homer.

Iliad. A critical study of selections from Books IX.-XXIV., amounting to six books. Frequent sight tests. Essays on Homeric topics.

Prerequisite, admission subject 17 or course B.

3 hours, first semester.

2. Plato.

Apology and Crito, Phaedo. Next to an accurate understanding of the text of Plato, attention is given to the life and teachings of Socrates.

Prerequisite, course 1, or course B in progress.

3 hours, second semester.

3. Euripides.

Iphigenia among the Taurians, and Alcestis. An introduction to Greek tragedy. Study of meters. Lectures on the Greek drama.

Prerequisite, course 2.

3 hours, first semester.

4. Thucydides, Demosthenes.

Thucydides Book VII. Demosthenes, Philippics.

Introduction to two important periods of Greek history. Collateral reading.

Prerequisite, course 3.

3 hours, second semester.

7. Greek Life and Literature.

A course of lectures on Greek life and literature, supplemented by required reading, reports and written tests. A History of Greek Literature will be used. A knowledge of Greek is desirable, but not required.

Open to all students.

2 hours, first semester or both.

8. Prose Composition.

Murray. For those preparing to teach Greek in the high schools of California, this course is essential. It should follow course 3.

2 hours, second semester.

UPPER DIVISION COURSES

Prerequisite, three courses out of 1, 2, 3 and 4. Two upper division courses are offered each year.

11. Plato.

Republic. Selections equivalent in amount to the Gorgias. A course valuable not only for students specializing in Greek, but for those pursuing ethics, sociology or education as well. The place of Plato in Greek philosophy.

3 hours, first semester.

12. Lyric Poets.

Selected. Development of the lyric. Lyric meters.

3 hours, second semester.

3. Herodotus.

Books VII. and VIII. Close study of contemporary history. Stylistic and dialect study.

3 hours, first semester.

4. Aeschylus, Sophocles.

Aeschylus: Prometheus or Agamemnon. Sophocles: Oedipus the King or Antigone. The place of Aeschylus and Sophocles in the Greek drama.

3 hours, second semester.

5. Aristophanes.

Clouds, Frogs. Contrast between Greek comedy and tragedy. Comedy as a mirror of the times.

3 hours, first semester.

16. Odyssey.

First twelve books. Special study of Greek mythology. Contrast between the Odyssey and the Iliad. Literary influence of Homer.

3 hours, second semester.

History

Professor Cunningham

LOWER DIVISION COURSES

1A. History of England.

A general view of the political history of Eng-

land to 1603. Special study of English constitutional history.

3 hours, first semester.

1B. History of England.

A general view of the political history of England from the seventeenth to the twentieth century. Special study of Imperial England.

3 hours, second semester.

2A. History of Western Europe.

A survey of the history of Western Europe to the sixteenth century. Special study of civilization during the Middle Ages.

3 hours, first semester.

2B. The Renaissance and Reformation.

The Renaissance: A study of the transition from medieval to modern thought. The Reformation: A study of the Protestant reformation in Northern Europe.

3 hours, second semester.

UPPER DIVISION COURSES

Courses 1 and 2 are prerequisite to all upper division courses in history. 5A and 5B are given in alternate years with 6A and 6B.

3. History of Greece.

A study of the history of Greece in which special emphasis is laid on the ages of Pericles and Demosthenes.

3 hours, first semester.

4. History of Rome.

A general survey of the history of Rome to the death of Caesar. Special study of the development of the constitution and the growth of Caesarism.

3 hours, second semester.

5A. American History 1492-1783.

Beginning of the American nation: the European inheritance. American colonial history: growth of colonial institutions. Causes of the Revolution: growth of independence. Omitted in 1912-1913.

3 hours, first semester.

5B. American History from 1783.

A study of national development; the government, the expansion, and the development of the United States. Omitted in 1912-1913.

Additional prerequisite, course 5A.

3 hours, second semester.

6A. Modern European History.

A general survey of the history of Europe in the eighteenth century. Special study of the French Revolution and the Napoleonic era.

3 hours, first semester.

6B. Modern European History.

A general survey of the history of Europe in the nineteenth century. Special study of the national leaders and social reforms.

3 hours, second semester.

Latin

Professor Ward

LOWER DIVISION COURSES

B. Cicero, Vergil.

The portions usually read in the third and fourth years of the high school. Composition, sight translation, prosody.

Prerequisite, admission subject 13.

3 hours, throughout the year (6 units).

1. Livy.

The larger portion of books XXI. and XXII. is read, with particular attention to the syntax and Livy's qualities as a writer and historian. Collateral reading on the history of the period.

Prerequisite, admission subjects 14 and 15.

3 hours, first semester.

2. Horace and Cicero.

Horace: Odes and Epodes. Cicero: De Amicitia or De Senectute. Lyric meters. Political conditions at the beginning of the empire.

Prerequisite, course 1.

3 hours, second semester.

3. Plautus and Terence.

Plautus: Captivi and Trinummus. Terence: Phormio. Meters, early forms and constructions, Roman and Greek life.

Prerequisite, course 2.

3 hours, first semester.

4. Tacitus and Pliny.

Tacitus: *Agricola* and *Germania*. Pliny the younger: selected letters. Investigation of social and political conditions under the empire.

Prerequisite, course 3.

3 hours, second semester.

5. Prose Composition I.

For those preparing to teach Latin in the high schools of California, this and the following course are essential.

Prerequisite, course 1.

2 hours, second semester.

6. Prose Composition II.

Prerequisite, course 5.

2 hours, first semester.

14. Roman Life.

Lectures and assigned readings. No knowledge of Latin required.

Open to all.

2 hours, second semester.

UPPER DIVISION COURSES

Course 4 is the common prerequisite for all upper division courses in this department. Two of these besides 13 are offered each year. 9 and 15 will be given in 1912-1913. An additional prerequisite to course 13 is course 6.

7. Horace and Juvenal.

Horace: *Satires* and *Epistles*. Juvenal: selected *Satires*.

3 hours, one semester.

8. Tacitus.

Selections from the *Annals*. Collateral studies in the history of the empire.

3 hours, one semester.

9. Lucretius.

De Rerum Natura: Books I., III. and V., with extended sight reading in the other three books. The Epicurean system and its poetic treatment at the hands of Lucretius.

3 hours, one semester.

10. Seneca.

Moral essays, accompanied by a close examination of Stoicism as a creed and of its influence upon Roman life.

3 hours, one semester.

11. Catullus, Tibullus and Propertius.

Selections. Influence of Alexandrinism. Roman morals. Literary coteries of the times.

3 hours, one semester.

12. Roman Comedy.

Plautus: *Rudens* and *Mostellaria*. Terence: *Andria* and *Adelphi*. Lectures on the Roman Drama.

3 hours, one semester.

13. Prose Composition III.

2 hours, one semester.

15. Seneca.

Tragedies: *Hercules Furens*, *Troades*, *Medea*. Comparison with the masters of Greek tragedy,

particularly Euripides. Seneca's handling of Greek meters and mythology.

3 hours, one semester.

Mathematics and Astronomy

Professor Allen

MATHEMATICS LOWER DIVISION COURSES

1. Solid Geometry.

The properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids and the regular solids, of cylinders, cones and spheres, of spherical triangles, and the measurement of surfaces and solids.

Prerequisite, admission subjects 4 and 6.

3 hours, second semester.

2. Plane and Spherical Trigonometry.

The development of the general formulae of trigonometry. The theory and use of logarithms. The application of trigonometry to numerous problems in plane and spherical mensuration.

Prerequisite, admission subjects 4 and 6.

3 hours, one semester.

3. College Algebra.

This course includes the development and application of the binominal theorem and of the

exponential and logarithmic series, permutations and combinations, and the theory of equations.

Prerequisite, admission subjects 4 and 6.

3 hours, first semester.

4. Plane Analytics.

A study of analytic methods, the analytic geometry of the straight line, the circle, and the conic sections, and investigation of the general equation of the second degree.

Prerequisite, admission subject 8 or course 2.

3 hours, second semester.

6. Surveying.

The department is equipped with a transit, Y level, Gunter's chain, steel tape, leveling rod, planimeter, slide rules, highly graduated protractor, parallel rules, etc. The principles of land surveying, irrigation, and railroad engineering will engage the attention of the class in actual field work, and the reduction of the field notes to plots drawn to scale.

Prerequisite, courses 1 and 2.

3 hours, second semester.

9. Differential Calculus.

The principles and formulae of differential calculus, and the application to such problems as maxima and minima, indeterminate forms, expansion of series, etc.

Prerequisite, courses 3 and 4.

3 hours, first semester.

UPPER DIVISION COURSES

The following will be ranked as Upper Division courses only when preceded by course 9. Physics 3 may be counted as an Upper Division course in Mathematics; also Astronomy 2, if preceded by Mathematics 9.

10. Integral Calculus.

The principles and formulae of integral calculus, with application to problems in integration, such as lengths of curves, areas, volumes, etc.

Prerequisite, course 9.

3 hours, second semester.

11. Theory of Equations.

The theory of determinants; the theory, analysis, and solution of higher numerical and algebraic equations.

Prerequisite, courses 2 and 3.

3 hours, first semester.

12. Higher Analytics.

A more advanced course than course 3, including a study of higher plane curves and the elements of solid analytic geometry.

Prerequisite, course 4.

3 hours, first semester.

ASTRONOMY

1. General Astronomy.

A course in descriptive astronomy. Simple problems and questions, involving the fundamental

principles of astronomy. Study of nebulae, planets, and constellations, with the telescope.

Prerequisite, admission subject 8 or Mathematics 2.

3 hours, first semester.

2. Practical Astronomy.

Lectures and observatory work. The determination of time, latitude, and longitude, and the computation of current eclipses and occultation of stars.

Prerequisite, admission subject 7, Mathematics 4, Astronomy 1.

3 hours, second semester.

Mechanical Drawing

Instructor Westcott

The courses cover such fundamental principles of Mechanical Drawing as are essential to the student pursuing science and engineering courses. They prepare for advanced courses in design, especially along architectural and mechanical engineering lines. Advanced work in any branch of the subject may be arranged in particular cases upon consultation. Work in course 3 must begin with the first semester; in other courses with either.

1. Instrumental Drawing.

(a) Linear drawing, freehand lettering, geometrical problems and constructions, mathematical curves.

(b) Mathematical curves continued, elementary principles of projection in the third quadrant, helical curves. Applied projection.

Open to all students.

3 hours, throughout the year (2 units).

2. Orthographic Projection.

(a) Problems in projection, intersection of solids, development of surfaces.

(b) Application of the foregoing principles to working drawings, isometric projection, shop sketching. This course is suitable for those who desire a working knowledge of mechanical drawing but who may not find it desirable to take the more extended course in Descriptive Geometry.

Prerequisite, course 1.

3 hours, throughout the year (2 units).

3. Descriptive Geometry.

(a) Basic principles, problems on point, line and plane, curved surfaces, sections, intersections.

(b) Shades, shadows and perspective.

The course involves the study and discussion of the elements of drawing from the theoretical side. The problems are adapted to stimulate analytical and constructive thinking. Many are so chosen as to show the application of theory to the practical work of the engineer and draftsman. From one to three hours per week are devoted to recitation or lectures, the balance to work at the drawing board.

Prerequisite, course 1 and Mathematics 1.

6 hours, throughout the year (4 units).

4. Machine Drawing.

Machine details, bolts and nuts, screw threads, machine movements, cam, lever and link, spur and bevel gears. Complete shop drawings of machines, assembly drawings, tracings, blue prints, titles.

Prerequisite, course 2 or 3.

3 hours, throughout the year (2 units).

5. Architectural Drawing.

A course familiarizing the student with the technical terms used in architectural practice and building construction, the purpose and principles of detail, plan drawing and architectural rendering. The details of the work done may be varied to suit the special needs of the student, the object being to provide a thorough foundation of elementary knowledge in the subject upon which to base advanced work. The classroom work is supplemented by lectures on drafting room practice, visits to the office of some architect and the inspection of buildings under construction.

Prerequisite, course 2 or 3.

3 hours, throughout the year (2 units).

6. Statics—Graphic and Algebraic.

The analysis of statical problems by both graphic and algebraic methods, showing the relation of the two and their relative advantages and disadvantages. The problems advance from simple forms of composition and resolution of forces

to the complex application of those principles in the determination of strains in frames such as bridge and roof trusses in their various forms, girders, the cantilever, etc.

Prerequisite, course 1 and Mathematics 2.

3 hours, throughout the year (2 units).

Philosophy

Professor Burt

1. Psychology.

Psychology, descriptive and explanatory. A study of the most general and elementary forms of consciousness. Ladd or equivalent is used as a text. Required for graduation.

Prerequisite, Sophomore standing.

3 hours, second semester.

2. Logic.

The principles of Deductive and Inductive Logic are studied and applied in practical work. The purpose is so to familiarize the student with the laws of thought that they may be of practical value. Required for graduation.

Prerequisite, course 1.

3 hours, first semester.

3. Ethics.

The history of ethical theory; its importance; the basis for moral obligation and the resultant

duties to God and man. Mackenzie or equivalent is used as a text. Required for graduation.

Prerequisite, courses 1 and 2.

3 hours, second semester.

4A. History of Ancient Philosophy.

An examination of the thought of the Greek period with special emphasis upon the systems of Plato and Aristotle. Junior-Senior elective.

3 hours, first semester.

4B. History of Modern Philosophy.

An examination of the principal systems of modern thought from Bruno to the present day. Junior-Senior elective.

3 hours, second semester.

5. Theism.

A study of the theistic arguments together with an examination of the anti-theistic theories.

Prerequisite, courses 1, 2 and 6.

3 hours, second semester.

6. Comparative Religions.

A study of the great religions of the world, emphasizing the divine origin and transcendent value of Christianity as the only religion for the world.

2 hours, first semester.

Physical Training

Joseph A. Pipal, Director

Mrs. Joseph A. Pipal, Director for Women

The work in this department is required of all Freshman and Sophomores not excused on account of physical disability. On entering college each student is given a thorough physical examination, which forms the basis for special prescriptive work. Students having organic heart trouble or any other weakness which make it dangerous for them to indulge in vigorous exercise are not allowed to participate in athletic competition or heavy gymnastics.

The course is graded—elementary, intermediate and advanced—thus offering a change of work each year. Under the supervision of the director, students may elect out-of-door athletics in place of indoor gymnastics.

1. Freshman.

(I) For Men. Elementary calisthenics, marching tactics and preliminary work in heavy gymnastics. Both indoor and outdoor games.

(II) For Women. Elementary gymnastics, free hand movements, light apparatus, tactics, fancy steps and gymnastic games.

2 hours, throughout the year (2 units).

2. Sophomore.

(I) For Men. Intermediate and advanced gymnastics, wand and dumb-bell drills, tumbling, indoor and outdoor games, advanced tactics.

(II) For Women. Intermediate and advanced gymnastics, light and heavy apparatus, tactics, fancy steps and gymnastic games.

2 hours, throughout the year (2 units).

Physics

Professor Adams

Assistant Professor Fiske

Assistant Bruce Dill

Assistant William Annin

LOWER DIVISION COURSES

Note.—Students lacking admission credit in Physics may secure this prerequisite to course 1 by taking the Physics course in Occidental Academy. No college credit, however, will be allowed for the academy course. This arrangement stands for two years, after which different provision will be made.

1. General Physics. ▽

A systematic development of the fundamental ideas and principles of physics is the aim of this course. The lectures include both elementary mathematical treatments and full experimental demonstrations. Kimball's College Physics, supplemented by Sabine's Laboratory Manual, is used as a text-book. The laboratory work includes such measurements as the moment of in-

ertia of an irregular body, g by the coincidence pendulum, surface tension of liquids, density by Nicholson's hydrometer, pitch by the monochord, speed of sound in brass by Kundt's tube, specific heat by the steam calorimeter, mechanical equivalent of heat by Pye's apparatus and by the electrical method, H by the magnetometer and the magnetic pendulum, electro-chemical equivalent of copper by the tangent galvanometer, wavelength of light by Newton's rings.

Prerequisite, admission subjects 8 and 25.

3 hours of lectures and recitations and 1 three-hour laboratory period, throughout the year (8 units).

2A. Optical Measurements.

In this course the theories of geometrical and physical optics are developed, and are verified by exact measurements in the laboratory. Edser's "Light" is the text-book. The optical laboratory is equipped with a spectrometer, a Pulfrich refractometer, a Michelson interferometer, a Lummer-Brodhun photometer, a saccharimeter, and optical benches with apparatus for work in diffraction and in polarized light.

Prerequisite, course 1. Mathematics 9 must precede or accompany.

3 hours of lectures and recitations and 1 three-hour laboratory period, first semester (4 units).

UPPER DIVISION COURSES

2B. Electrical Measurements.

The laboratory work of this course includes a

measurement of resistance in absolute units by Lorenz's method; comparison of resistances by various forms of the Wheatstone bridge, viz.: Carey Foster's, Kohlrausch's, Hartmann and Braun's, and Thomson's; the calibration of a ballistic galvanometer; measurement of capacity by the ballistic galvanometer; measurements of self-inductance and of mutual inductance; measurements on alternating-current circuits containing capacity and inductance. The lectures deal with the theory of the methods employed and with industrial applications. Hadley's "Magnetism and Electricity" is the text book.

Prerequisite, course 2A and Mathematics 9.

Mathematics 10 must precede or accompany.

3 hours of lectures and recitations and 1 three-hour laboratory period, second semester (4 units).

3. Analytical Mechanics.

This course gives a comprehensive survey of both statics and dynamics, following Hoskin's "Theoretical Mechanics." It is intended for Juniors who have taken calculus, but Sophomores who are taking calculus at the same time may be admitted by consent of the instructor.

Prerequisite, course 1, with Mathematics 9 and 10 completed or in progress.

5 hours of lectures and recitations, throughout the year (10 units).

4A. Thermodynamics.

The relations between heat and other forms of

energy are discussed in this course. Instruction will be by lectures and prescribed reading. Omitted in 1912-1913.

Prerequisite, course 1 and Mathematics 9 and 10.

3 hours, first semester.

4B. The Electron Theory.

The last few years have witnessed discoveries which are rapidly leading to a unitary view of the whole subject of electricity, under the name of the "Electron Theory." These discoveries are taken up and interpreted in this course. The lectures will be supplemented by outside reading. Omitted in 1912-1913.

Prerequisite, courses 1 and 2, and Mathematics 9 and 10.

3 hours, second semester.

Spanish

Professor Bell

1. Elementary.

Hill's and Ford's Spanish Grammar. Reading of short and easy stories and plays. Doce Cuentos Escogidos; Alarcon, El Capitan Veneno; Valera, El Pájaro Verde; Galdós, Marianela. Composition and conversation.

4 hours, throughout the year (8 units).

2. The Modern Novel and Drama.

Galdós, *Doña Perfecta*; Valdes, *La Hermana San Sulpicio*; Valera, *El Comendador Mendoza*; Pereda, *Pedro Sanchez*; Echegaray, *El Gran Galeoto*. Advanced grammar and composition.

Prerequisite, admission subject 24 or course 1.
3 hours, throughout the year (6 units).

Schedule

Schedule of Lectures and Recitations

The names and numbers of courses correspond with those found under "Departments of Instruction," pages 59 to 104, the added Roman numerals referring to sections of classes.

Recitation periods are indicated by figures, in the vertical columns, as follows:

- 1 begins at 8:30 a.m.
- 2 begins at 9:25 a.m.
- 3 begins at 10:20 a.m.
- 4 begins at 11:35 a.m.
- 5 begins at 1:10 p.m.
- 6 begins at 2:05 p.m.

L means a laboratory period, which in every case begins at 1:10 p.m. and ends at 4.

Courses not scheduled will have their hours arranged when the classes are formed.

Chapel exercises are held daily at 11:15 a.m.

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
1		1		1	Astronomy 1.....					
					Astronomy 2.....					
	3			2	Biblical Lit. 1 I....					
	5		5		Biblical Lit. 1 II..					
4			4		Biblical Lit. 1 III					
					Biblical Lit. 2 I....			3		3
					Biblical Lit. 2 II..	3		1		
					Biblical Lit. 3.....		2		2	
3		3			Biblical Lit. 4.....					
		5		5	Biblical Lit. 7.....					
					Biblical Lit. 8.....			5		5
	3		L	2	Botany 1.....					
			L							
					Botany 2.....		3		L	2
3		1		3	Chemistry 1 I.....	3		1		3
3		3		3	Chemistry 1 II.....	3		3		3

First Semester

Second Semester

M	T	W	T	F		M	T	W	T	F
			L		Chemistry 2				L	
	L	L			Chemistry 3		L	L		
L			L	L	Chemistry 4	L			L	L
L			L	L	Chemistry 5	L			L	L
1				1	Chemistry 6	1				1
L			L	L	Chemistry 7	L			L	L
					Chemistry 8					
					Chemistry 9					
L			L	L	Chemistry 10	L			L	L
					Drawing 1					
					Drawing 2					
L			L		Drawing 3	L			L	
					Drawing 4					
					Drawing 5					
					Drawing 6					
	3		3	2	Economics 1					
					Economics 2		3		3	2
6	5		5		Economics 3					
					Economics 4	6	5		5	
					Economics 5					
1		1		1	Education 2					
					Education 3	1		1		1

First Semester						Second Semester				
M	T	W	T	F		M	T	W	T	F
					English A.....					
	2		2		English 1 I.....		2		2	
2		2			English 1 II.....	2		2		
		5		5	English 1 III.....			5		5
		3		3	English 2 I.....					
3		1			English 2 II.....					
					English 3.....	6			5	
2	2		2		English 5 I.....					
4		4	4		English 5 II.....					
					English 7 I.....	2	2		2	
					English 7 II.....	4		4	4	
	5			6	English 8.....					
					English 9.....		5			6
					English 11.....	3		3		3
3		3		3	English 12.....					
	3		3	2	English 13.....					
					English 14.....	5		5		
					English 15.....		3		3	2
	6	6	6		English 19.....		6	6	6	
					English 20.....	3		3		3
5	5				English 22.....					
1	1		1	1	French 1.....	1	1		1	1
4		4	4		French 2.....	4		4	4	
6	5		5		French 3.....	6	5		5	
	6	6	6		French 5.....		6	6	6	
3		3		3	Geology 1.....					
					Geology 2.....	3		3		3
		L			Geology 3.....					
					Geology 4.....			L		
L	2				Geology 5.....					
					Geology 6.....	L	2			

First Semester						Second Semester				
M	T	W	T	F		M	T	W	T	F
1	1		1	1	German 1.....	1	1		1	1
	3		3	2	German 2.....		3		3	2
	6	6	6		German 3.....		6	6	6	
6	5		5		German 5.....	6	5		5	
1	1		1	1	Greek A.....	1	1		1	1
					Greek B.....					
					Greek 1.....					
					Greek 2.....					
					Greek 3.....					
					Greek 4.....					
4			4		Greek 7.....	4			4	
					Greek 8.....					
					Greek Upper Div.....					
4		4	4		History 1 I.....	4		4	4	
2	2		2		History 1 II.....	2	2		2	
3		3		3	History 2.....	3		3		3
	3		3	2	History 3.....					
					History 4.....		3		3	2
5		5		5	History 6.....	5		5		5
					Latin B.....					
3		3		3	Latin 1.....					
					Latin 2.....	3		3		3
4		4	4		Latin 3.....					
					Latin 4.....	4		4	4	
					Latin 5.....					
					Latin 6.....					
6	5		5		Latin 9.....					
					Latin 14.....		3		3	
					Latin 15.....	6	5		5	

Special Announcement

NEW COURSES IN COMMERCE

Whereas the graduates of a certain eastern university once drifted mainly toward law, a larger per cent at the present time go into business. Wider investigation might show that this is no isolated case. It is not impertinent to ask, therefore, what relation exists or ought to exist between business and higher education. Ancient tradition answers, none. The standard course originally prescribed in our American colleges made special provision for candidates for the ministry only. Under the first radical change two other professions were recognized, so that after nearly a century of slow progress the prospective physician was finally allowed to "major" in chemistry or biology, and the lawyer in such subjects as history and economics. But reform is contagious. Medicine, law and theology no longer stand alone in having special courses provided during the undergraduate period. To say nothing of mechanics and mining, we have reached the age when "colleges of agriculture" flourish in every state, and farming is beginning to be treated as one of the learned professions. Business, of all careers and callings, seems to have been regarded as too grossly material to be capable of anything resembling a cultural treatment. Up to the year 1900, barely two or three institutions had given it a place in their curricula. Notable among these, and first in order of time, was the University of Pennsylvania, where the "Wharton School of Finance,"

established in 1881, soon became famous. Years later, Chicago, California and Columbia followed suit, then Dartmouth, Wisconsin and the University of New York. One strictly Graduate school of business administration was opened at Harvard as late as 1908. As might be expected, the movement has grown more popular each season, and the results are beyond question. A large amount of systematized knowledge regarding the organization and management of commercial enterprises has been found to exist, worthy to rank with other subjects in a college course, and affording a point of contact between the student's work in college and his later career as a business man. For a large class of men, it is the one thing needed to make their intellectual training bear directly upon the greater work of life. We have passed the day when one can afford to attend college purely for the mental discipline, with no reference to his peculiar aptitudes or the calling he is to pursue. If this is true in law and medicine, it is just as true in business. Here, as elsewhere, general and special training may go hand in hand without detriment to either. Theory can and must lead in the direction of the practical.

Within the field assigned a college of liberal arts, the courses offered by Occidental heretofore have had this principle constantly in view. And now, in order to widen its scope still farther, the Trustees have decided to offer, beginning with September, 1913, a number of fundamental courses in commerce, such as are standard in the best institutions named above. The plan they have chosen to follow in gen-

eral outline, though not necessarily in detail, is that found in operation at Dartmouth. As carried on at Dartmouth, the first year of the course in commerce usually constitutes the Senior year of the regular college course, at the close of which the degree of bachelor of arts or science is conferred. It may be referred to as the undergraduate course in finance and business administration. The second year is of graduate grade, and at its close the degree of master of commercial science is bestowed. It is the undergraduate course that Occidental proposes to offer. But instead of being restricted to the Senior year, the work will probably be scattered through the last two years of the course. Certain prerequisite courses will be given in the Freshman and Sophomore year. By requiring Junior standing for the remainder, the work of specialization will start where specialization for other professions usually starts. Also the danger of divorcing the commercial from the cultural idea will be eliminated. The work in commerce will constitute a major in economics, falling mostly in that department. A minor in some related department will still be required for graduation, as at present. Including subjects already offered, the course will be somewhat as follows, subject to later revision:

Economic Theory and History (two years); Commercial French, German or Spanish; Accounting (Theory and Practice); Economic Geography; Resources and Industries of the United States; Statistics (elementary and advanced); Money and Banking; Transportation (rail and water); Indus-

trial Organization; Business Procedure; Commercial History and Policy.

Starting in handsome quarters on the new campus, and with ample equipment and teaching force, the new department will open under especially favorable auspices. Without claiming to make masters in any line of business, it may be expected to give its graduates that knowledge of business methods in general which in itself is a liberal training, and which insures more rapid success in whatever business they undertake.

Students wishing to be ready for the above courses in September, 1913, should seek advice from the Classification Committee regarding the best courses to pursue the coming year in the way of preparation.

General Information



THE HALL OF LETTERS

General Information

Registration and College Credits

Registration. On the appointed registration days at the opening of each semester, each student must obtain a registration card at the Registrar's office. This card, properly filled out, must be filed with the Registrar not later than the first Friday of the semester. Students failing to register before that time will pay a registration fee of two dollars. The tuition fee must be paid or its payment arranged for with the Business Manager at the time of registration. A certificate of moral character is required of each applicant for admission.

Enrollment in Classes. A student desiring to enter any class must present to the instructor a certificate of registration for that class. No one will receive college credit for any course for which he has not duly registered.

Change of Subjects. Students desiring to change from one subject to another after the opening of the semester must present to the classification committee a written petition not later than one month after the beginning of the semester.

Change from one Group to Another. Students desiring to change from one group to another may do so with the approval of the departments concerned and with the permission of the classification committee, ordinarily not later than the beginning of the Junior year.

Amount of Work. Nineteen unit-hours for Freshmen and Sophomores, and seventeen for Juniors and Seniors, constitute the maximum amount of work for which a student is permitted to register. Twelve unit-hours constitute the minimum. A student incurring a condition or failure will be limited to fifteen unit-hours during the semester following.

Marking System. Scholarship grades are indicated by letters, as follows: "A" represents marked excellence; "B," thoroughly satisfactory; "C," fair; "D," just passing; "d" means a condition; "da," a condition to be removed by examination; "db," a condition to be removed by completing unfinished work; "f" is a failure.

Conditions and Failures. A student incurring a failure in any course will be required to re-register for that course before he can receive credit for the subject. A condition incurred in any course becomes a failure unless removed within one year under the direction of the instructor.

Classification. The class in which a student is to be ranked is determined by the following scale of credits, each figure being the minimum for conditioned standing in the class named:

Freshman— $13\frac{1}{2}$ units of accepted high school credit.

Sophomore—26 units (net) of college credit.

Junior—60 college units, all entrance conditions removed.

Senior—94 college units, all entrance conditions removed.

Attendance

The College requires of all students regular attendance at the chapel service and at all the classes to which they belong. A copy of the rules governing attendance may be obtained from the Dean.

Honors

CLASS HONORS

First Honors are awarded on commencement day to those members of each of the four classes whose credits for the year's work reach the average of two-thirds A's and one-third B's.

Second Honors are awarded to those whose credits for the years' work reach the average of one-third A's and two-thirds B's.

To be eligible to either of these honors, one must have at the end of the year:

- a. All entrance conditions removed.
- b. No failures or unremoved conditions on the year's record.
- c. At least 24 units of college credit earned during the year.
- d. Rank in the next class.

FINAL HONORS

On the same basis as above, Final Honors will be awarded to those members of the graduating class who have won Class Honors each of the four years of their course, or whose average for the four years equals the average required for Class Honors.

Students from other institutions, entering Occidental not later than the beginning of the Junior year, will be eligible to Final Honors, provided, in the judgment of the Committee on Classification, their record for the preceding part of their course equals the standard named above.

VALEDICTORY AND SALUTATORY

The rank of Valedictorian is awarded to that member of each graduating class who stands highest in scholarship average for the entire course.

The rank of Salutatorian is awarded to that member of each graduating class who stands second in scholarship average for the entire course.

Students from other institutions entering Occidental later than the beginning of the Junior year are not eligible to these honors.

Oratorical and Debating Contests

Intercollegiate Oratorical Contest. An oratorical contest between the colleges of Southern California is held annually. The preliminary contest at Occidental College is in charge of the students' Oratorical Association. The winner in this contest represents the College in the Intercollegiate. In the last home contest, the first prize was won by Mr. Leslie L. Boyd, '12, and the second by Mr. Day Ehrenfeld, '14.

Oratorical Contest of the Prohibition League. Each year an oratorical contest is held under the auspices of the Students' Prohibition League, which

is a branch of the Intercollegiate Prohibition Association. The subjects discussed are connected with the work of temperance reform. Two prizes, of \$15 and \$10, respectively, are offered to the winners of this contest by the Temperance Committee of the General Assembly of the Presbyterian Church, in the U. S. A. In this year's contest the first prize was awarded to Mr. Leslie L. Boyd, '12, and the second to Mr. W. S. Thorndike, '13.

The Triangle Debate. The first "Triangle Debate," between representatives of Pomona College, the University of Southern California, and Occidental College, was held Feb. 24, 1912, and is to be an annual affair. Three debates on the same question take place simultaneously. Each institution is represented by six debaters, three of whom support the affirmative in the home contest, the remaining three supporting the negative at one of the other institutions. In the debate with the University of Southern California Occidental was represented by Alvon Musick, '14, John Bickford, '14, and C. H. Gaskell, '13; in the debate with Pomona, by Willis La Mott, '15, Harry McClean, '15, and John Hopkins, '15.

The Southern California Peace Society. An oratorical contest is held annually under the auspices of the Southern California Peace Society. The aim of the society is to bring about international disarmament. These college contests are for the purpose of interesting college students in the movement. The local contest is under direct charge of the student Oratorical Association, and the winner represents the College in the Intercollegiate Peace

Oratorical Contest of Southern California. At the home contest, occurring in April, 1911, Mr. Christopher H. Gaskell took first prize, and Mr. Day Ehrenfeld second.

High School Certificate

Graduates of Occidental College may obtain the high school teacher's certificate for California on the same conditions as graduates of the State University. Full details regarding these conditions will be furnished on application.

The Friday Assembly

The Friday Assembly is a feature of Occidental life scarcely matched anywhere else among the colleges of America. At this assembly vital topics are discussed by eminent men and women from all parts of the world. No lecture course east or west provides its patrons a richer or more varied program than that offered to the students of Occidental every week in the year, free of charge, from their own chapel platform. Its value as part of a college education can hardly be estimated. The following are a few names, among many, of those who have given addresses the past year: President William H. Taft, Congressman W. D. Stephens, Francis J. Heney, Dr. Robert J. Burdette, Calbraith P. Rodgers, the aviator, W. R. George of the George Junior Republic, President Henry S. Pritchett of the Carnegie Foundation for the Advancement of Teaching, Senator Robert M. La Follette.

Physical Training and Athletics

The body being the physical basis of mind and soul should be made a fit instrument of their work. This can best be accomplished by a wisely prescribed course of training. Through such a course the human organism reaches the highest stage of structural and functional efficiency, and greater mental and moral efficiency naturally follows. The work of the department of Physical Training, both in gymnastics and in athletics, is always made subordinate to this larger purpose of the institution. It is regarded as a means and not an end.

The gymnasium is a large well-lighted and well-ventilated room connected with the men's dormitory. It contains indoor baseball and basketball courts and is equipped with traveling and flying rings, horizontal and parallel bars, vaulting horse, floor mats, medicine balls, Indian clubs, wands, dumb bells, punching bags and other apparatus needed for systematic body building. Near by are lockers, with dressing rooms, and shower baths supplied with both hot and cold water. A large enclosed court is used by the young women for games, such as basketball, volley ball and hand ball. Adjoining this court is the young women's dressing and locker rooms, in which are five showers supplied with hot and cold water. Three well-kept tennis courts are open to all students. The athletic field, contains a standard quarter-mile track, with football, baseball and basketball fields. The field house is conveniently located on the edge of the field and contains a large supply of lockers, dressing rooms and baths.

Athletics as a phase of the general college life are under the care of the Associated Students, acting in co-operation with the Faculty Athletic Committee. Athletics as affecting the health of the individual are controlled by the Physical Director.

Regulations Governing Social Life

The College provides places of residence for the students by means of a system of registered lodgings and boarding places. All students must room in places approved by the Faculty, changing from one place to another only with permission. Students are required to keep reasonable hours and to conduct themselves with propriety at all times. A copy of the rules governing the social life of the College may be obtained from the Dean.

Fees and Expenses

Tuition, each semester.....	\$45.00
Graduation Fee.....	5.00
Biology, each laboratory unit.....	2.00
Physics, each laboratory unit.....	3.00
Chemistry, each laboratory unit.....	4.00

But no fee in excess of \$10.00 shall be charged for any laboratory course. For Zoology 4 no fee is charged.

A breakage deposit of \$5.00 is required for each laboratory course in Chemistry. The balance re-

maining at the end of the course will be returned. A breakage account is kept with each student in Geology, payable at the end of the semester.

All fees are payable in advance. Five per cent will be added to all bills of the first semester not paid by November 15th, and to those of the second semester not paid by March 15th.

Living Expenses. A system of registered lodging and boarding places provides places of residence for the students at a cost varying from eighteen to twenty-five dollars per month. New students will be provided on their arrival with complete lists of approved rooms and boarding places.

Applications for rooms in the men's dormitory may be sent to the Registrar, Occidental College.

The necessary expenses of the student range from \$275 to \$400.

Students who desire to earn their expenses while attending the College should register with the Employment Bureau conducted by the Christian Associations. Opportunities for self support among the students are somewhat limited. The number of students who earn their entire expenses is comparatively small.

Scholarships

The College has a limited number of scholarships available for the relief of deserving students who are unable to pay tuition. In some cases the beneficiary is named by the donor, in others by the

President or Board of Trustees. Every candidate for a scholarship must have his application indorsed by some person of recognized standing in his home neighborhood. Any one receiving such aid will be expected to maintain a creditable standing in his classes and to show by his conduct that the assistance has been worthily bestowed. Address all communications regarding these scholarships to the President.

THE HORACE CLELAND SCHOLARSHIP

In addition to those named above, the Horace Cleland Scholarship, recently established by the Alumni Association, is awarded, for the Sophomore year only, to that member of each class who seems best entitled to it on the general basis of need and merit.

THE CECIL RHODES SCHOLARSHIPS

Competition for these is open to students of Occidental and one alumnus of the College has already completed his course at Oxford as a result of his successful candidacy.

STUDENT LOAN FUND

There is a loan fund from which a worthy student in unusual need may borrow at four per cent interest a sufficient amount to meet a part or all of his tuition, giving his personal note as security. Such loans can be made only in case of real need and through personal conference with the President. Each applicant must furnish satisfactory references and will be expected to maintain a proper standard of scholarship and conduct.

Student Organizations

The Associated Students. The purpose of this organization is to control all student enterprises. All Occidental students are eligible to membership. At its organization, the Associated Students absorbed the Athletic Association, the Oratorical Association, and the Occidental Publishing Company. These enterprises are now under the direct control of a General Manager and under the general control of an Executive Committee, which is composed of the officers of the Association, the General Manager, and one representative of each of the following interests: Oratory, Athletics, Student Publications, the Alumni, and the Faculty.

All expenditures must be authorized by the Executive Committee; and every month a report of receipts and expenditures, after being duly audited, is published in *The Occidental*.

Christian Associations. The Young Men's and the Young Women's Christian Associations are both represented by strong organizations, being supported by a large majority of the students. The weekly meetings of the Associations are largely attended. Classes for systematic Bible study meet regularly.

Interest in missions is very strong, the Student Volunteer movement being well represented in both Associations.

Each year the Y. M. C. A. sends a delegation to the State conference at Carmel-by-the-Sea, and the Y. W. C. A. a delegation to Capitola.

An important feature of the work of the Associa-

tions is the Student Employment Bureau, which is conducted for the benefit of those desiring to earn their expenses during the college year. An Information Bureau is also conducted by the Association for the assistance of new students at the opening of the college year.

Literary Societies. The students of the College support three active literary societies: the Stevenson and the Lowell, composed of young men, and the Laurean, composed of young women. These societies hold weekly meetings for debating and other literary work.

Glee Club. The Glee Club continues to maintain its place among the successful organizations of the College. Besides furnishing the music at various services and exercises of the College, the club regularly makes a vacation trip to a number of the surrounding towns. It contributes in no small degree to the social life of its members and to the musical interests of the College.

Membership is based upon ability displayed in competitive trials at the opening of the school year.

Student Publications

The Occidental, the College newspaper, appears each week of the College year. It is edited and managed by students of the College. An annual, La Encina, is published in May by the Junior class. A handbook of information is issued at the beginning of each year by the Y. M. C. A.

Executive Committee of the Associated Students

President.....	Harold B. Landreth, '11
Vice-President.....	Edith G. Osmond, '11
Secretary.....	Bessie M. Gardner, '11
General Manager.....	Fred M. Johnson, '11
Alumni Representative.....	Arthur L. Spring, '08
Editor of "The Occidental".....	Edwin A. Bishop, '11
Athletic Representative.....	W. W. Cumberland, '11
Oratorical Representative.....	C. H. Gaskell, '12
Faculty Representative.....	Professor Ward

Degrees Conferred in 1911

Doctor of Divinity

William Beal Gantz

Robert Wickliffe Cleland

Bachelor of Arts

George Van Dusen Baer

Louise Noble Carter

Edna Louise Chamberlin

Lou Elizabeth Crinklaw

Clifford Alden Douglas

David Reid Faries

George Hutchinson Gobar

Ada Jane Harvey

Anna Grace Herriott

Rowena Margaret Huscroft, **Salutatorian**

Grace McCoy

Willa Josephine McKee

Lysle Rothwell McKenney

Eva Marler Overton, **Valedictorian**

Robert Covert Patterson

Mary Lydia Reiner

Harold John White

Bachelor of Science

Roswell Howard Annin

Mary Bartee Edwards

Charles Harold Hopkins

Boyd B. Kreider

James Franklin Nelson

AMENDED

Articles of Incorporation

OF THE

Occidental College of Los Angeles

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the Occidental College of Los Angeles is a corporation duly incorporated, organized and existing under and by virtue of the laws of the State of California, under the provisions relating to the incorporation of colleges and seminaries of learning, and having its principal place of business, and maintaining its college, in the County of Los Angeles, State of California, and

WHEREAS, two-thirds of the members of said corporation at a meeting of said members duly called and held on the 7th day of April, 1910, did, by resolution duly adopted, authorize the Articles of Incorporation of said corporation to be amended, and by their written assent, amended such Articles of Incorporation.

NOW, THEREFORE, the Articles of Incorporation of said corporation as so amended, are hereby certified by the subscribers hereto to be as follows:

ARTICLE I.

The undersigned, who are each and all citizens of the United States, and a majority of whom are residents of the State of California, having heretofore been voluntarily associated together under and by virtue of the original Articles of Incorporation of said corporation, and various amendments thereto, do hereby continue such voluntary association for the purpose of maintaining such incorporation under said laws, and further certify as follows:

ARTICLE II.

That the name of said corporation shall be the Occidental College of Los Angeles.

ARTICLE III.

The purposes for which said corporation is formed are: To receive and to hold by purchase, gift, devise, bequest, or grant, real and personal property; to erect buildings, establish and maintain a college for educational purposes with all power necessary to maintain and conduct a non-sectarian Christian college of liberal arts and natural sciences; to grant such literary honors as are usually granted by any college of learning in the United States, and in testimony thereof, to give suitable diplomas under its seal and the signatures of such officers of the college as shall be deemed expedient.

The teaching and management of the college shall always be in accord with that of the evangelical Christian churches concerning the Fatherhood and sovereignty of God, the diety and atonement of Jesus Christ, the person and work of the Holy Spirit, and the Bible as an authoritative revela-

tion from God, and other fundamental doctrines of Christianity.

ARTICLE IV.

The place where the said college is to be conducted is in the County of Los Angeles, State of California, and its principal business is to be transacted in one of the buildings of the college maintained on its college site in said county.

ARTICLE V.

The period for which said corporation is to exist is fifty years from and after the date of its incorporation, and for such further time as may be allowed by law.

ARTICLE VI.

The management of the college shall be non-sectarian, and shall be vested in a self-perpetuating board of twenty evangelical Christian church members.

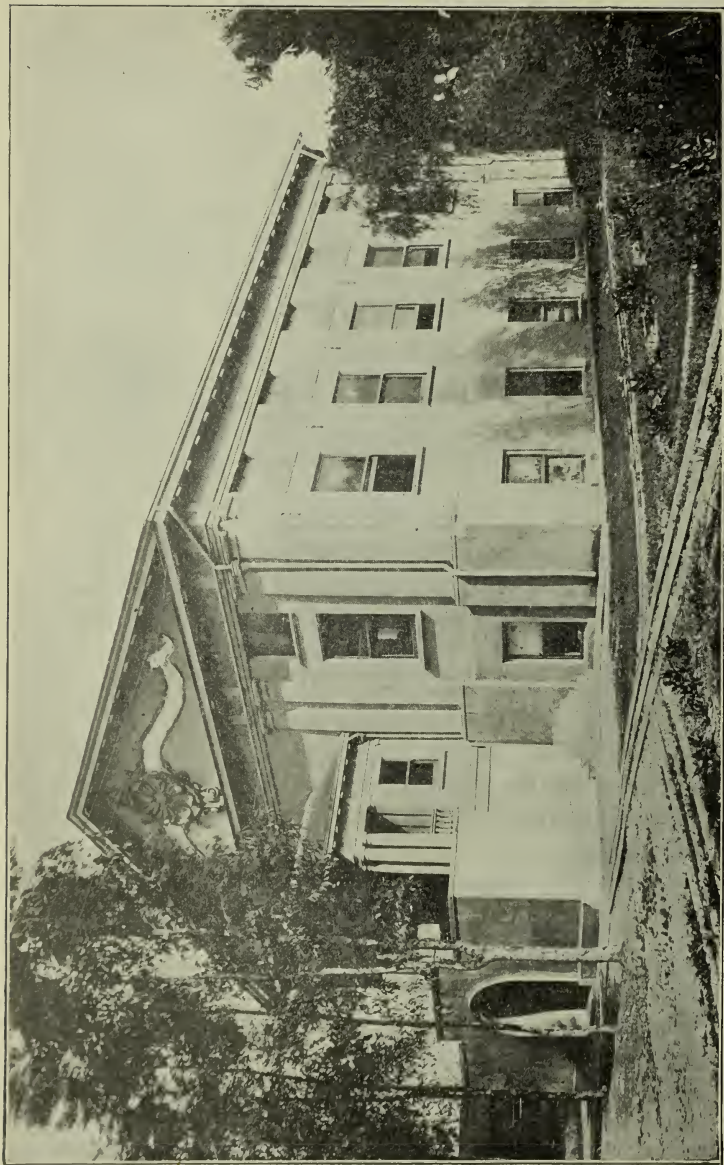
ARTICLE VII.

These Articles of Incorporation, as hereby amended, shall not be further changed or amended except with the consent, in writing, of two-thirds of the members of the Board of Trustees of said corporation.

FORM OF BEQUEST

Those intending to devise property to Occidental College are requested to use the following form: "I hereby give, devise and bequeath unto the Occidental College of Los Angeles, State of California, the sum of.....Dollars."

For property other than money the form should be correspondingly varied.



THE GYMNASIUM

Officers of the Alumni Association

President,

Dr. Arthur W. Buell, '04
Long Beach, Cal.

Vice-President,

Bertha Boal, '08,
Los Angeles, Cal.

Secretary,

Margaret Herskovits, '05,
San Fernando, Cal.

Treasurer,

Harry C. Dane, '02,
1959 West Washington Street,
Los Angeles, Cal.

Alumni Representative,

Executive Committee Associated Students,
Arthur L. Spring, '08,
Los Angeles, Cal.

Alumni Editor of "The Occidental,"

L. Byrd Rice, '10,
Los Angeles, Cal.

Graduate Council

Term expiring June, 1912:

L. Byrd Rice, '10
Arthur L. Spring, '08
Watson B. Burt, '08
Rev. Edward D. Chapin, '08
Edna Louise Chamberlin, '10

Term expiring June, 1913:

Edward H. Solomon, '03
Dr. Isabel Crowell, '02
Daniel S. Hammack, '05
Percy B. Goodell, '05

Term expiring June, 1914:

Dr. Arthur W. Buell, '04
Bertha Boal, '08
Margaret Herskovits, '05
Arthur G. Paul, '09
Frank N. Rush, '09

Alumni

1893

Maude Bell (Mrs. F. R. Baer),
R. F. D. No. 4, Higginsville, Mo.
Martha Thompson (Mrs. Thomas Coyle),
Quogue, New York

1894

Donald K. Cameron, B.L., Baltimore, Md.
H. Percy Dilworth, B.L., Hemet
Floy K. Roberts, A.B. (Mrs. A. N. Jung),
809 Green Street, Los Angeles

1895

Alphonso E. Bell, A.B., Santa Fe Springs
Rev. Donald M. Brookman, A.B.,
180 Washington Avenue, Albany, N. Y.
Leslie E. Lynn, A.B.,
Boca Tres Amigos, Costa Rica, C. A.
William E. Parker, A.B.,
6038 Monte Vista Street, Los Angeles

1896

George Byram, B.S., Box 83a, R. D. No. 2, Ontario
Walter V. E. Thompson, B.S.,
2515 Stanford Avenue, Los Angeles

1897

Helen Harris, B.S.,
1136 East 44th Street, Chicago, Ill.
Pedro Recio, A.B., Chihuahua, Mexico

1898

Rev. Edward H. Miller, A.B., Seoul, Korea

1900

Amy Pressley Gordon, B.L.,
4811 Pasadena Avenue, Los Angeles
Grace Marie Lowder, A.B.,
3026 East Fifth Street, Los Angeles
Alfred Solomon, A.B., Berkeley

1902

Rev. Dwight C. Chapin, A.B.,
5320 Pasadena Avenue, Los Angeles
Isabel Crowell, B.L., M.D.,
925 North Garfield Street, Alhambra
Harry C. Dane, B.S.,
1959 West Washington Street, Los Angeles
Dorothea E. Lewis, A.B. (Mrs. Dwight Potter),
Tappen, New York
Laura Mosher, B.L. (Mrs. Silas Johnson),
Efulen, West Africa
Mabel R. Patty, B.L., (Mrs. Thomas Ogden),
630 East Fern Avenue, Redlands

1903

*Rev. T. Horace Cleland, A.B.,
Helen E. Howe, B.S., Santa Barbara
Fred H. Schauer, B.S., B.L., Santa Barbara
Edward H. Solomon, A.B., Los Angeles

1904

Arthur W. Buell, B.S., M.D.,
402-4 First National Bank Bldg., Long Beach
Loua L. Gorham, A.B., Santa Barbara

*Deceased.

Rev. Augustus Roy Thompson, B.S.,
Lares, Porto Rico

1905

Percy Bailey Goodell, B.S., Box 52, Claremont
Daniel Stewart Hammack, A.B.,
5421 Longfellow St.

Margaret Herskovits, B.L.,
926 Blaine Street, Los Angeles

Bertha Evelyn James, B.L. (Mrs. A. E. Dilworth),
426 El Molino Street, Pasadena

John Robinson Jeffers, A.B.,
1623 Shatto Street, Los Angeles

Eleanor Estelle McClung, B.L. (Mrs. A. W. Buell),
1273 East First Street, Long Beach

Irwin William McKee, A.B.,
5430 Marmion Way, Los Angeles

Clara Florence Meader, A.B. (Mrs. McNally),
Pasadena

Lelia Wiatt Quinby, B.L.,
Barranquilla, Colombia, S. A.

Julia Katrina Winn, B.L. (Mrs. W. C. Erdman),
Taiku, Korea

Rev. George Hinsdale Winn, A.B., Fusan, Korea

1906

Edwin Hodge Crabtree, A.B., San Diego

Edna D. Cumberland, B.L. (Mrs. W. E. Roberts),
Sioux Falls, South Dakota

Genevieve M. Cumberland, B.L. (Mrs. Philip Lee),
El Cajon

Ernest John Cummings, A.B., Carpenteria
Rebecca Pearl Ellis, B.L., Whittier

- Margaret Gordon Grant, A.B.,
5542 Pasadena Avenue, Los Angeles
- John Percival Hagerman, A.B., Canada
- Philip Benjamin Kennedy, B.L.,
44 Ware Hall, Cambridge, Mass.
- Rev. Sidney McKee, B.L., E. Lowery Memorial
High School, Shanghai, China
- *James McMichael, A.B.
- Rev. Carl Wallace Petty, B.L.,
150 East 189th Street, New York City
- Edith C. Powell, B.L. (Mrs. Harry B. Raney),
Azusa
- George Nye Steiger, A.B., St. John's College,
Shanghai, China
- Mattie Ethelyn Wakefield, B.S.,
287 Lincoln Avenue, Pasadena
- Frances Grace Webster, A.B.,
East Avenue 56, Los Angeles
- Clyde Lynn Earl Wolfe, B.S., Pasadena
- 1907
- Frank Peer Beal, B.L., Y.M.C.A., Tientsin, China
- Rev. John Wesley Beard, B.L., Hoquiam, Wash.
- Robert Henry Blee, B.S.,
Box 475, Willows, Glenn Co.
- Vera Howard Brooke, A.B.,
1716 Western Avenue, Los Angeles
- Robert Glass Cleland, A.B.,
254 West Avenue 52, Los Angeles
- Charles Herbert Cleveland, B.L.,
221 American Avenue, Long Beach
- Howard Clever, B.S., R.F.D. No. 1, Norwalk

*Deceased.

- Mamie Katherine Daniel, B.L. (Mrs. Charles Newton Randolph), 537 Virgil Street, Los Angeles
Harry Sloan Dukes, B.L.,
2422 East Third Street, Los Angeles
Bessie Louise Field, B.L.,
239 Kenwood Street, Glendale
Theodore Fulton, B.L.,
2272 West 29th Street, Los Angeles
Frances Wallace Gordon, B.L.,
4811 Pasadena Avenue, Los Angeles
Marie Alden Hopkins, A.B., Fullerton
Elizabeth Anne Horton, B. L. (Mrs. I. W. Creech),
Tipton, Cal.
Abigail Lucinda Lane, B.L.,
Y. W. C. A., Sacramento
Laura Matilda McGaugh, B.L., Rivera
Anna Montella McKee, A.B., Chai Ryong, Korea
Rev. Samuel C. McKee, A.B.,
Chen Chow, Southern Hunan Province, China
Fairy Abiah Means, B.L. (Mrs. Robert Blee),
Box 475, Willows, Glenn Co.
Lillian Merrill, B.L. (Mrs. Stephen Y. Van Meter),
140 East Avenue 53, Los Angeles
Ysabel Mordy, B.L., Magdalena, New Mexico
Maud Muratt, A.B.,
845 East 29th Street, Los Angeles
Bessie May Pope, A.B.,
2913 North Broadway, Los Angeles
Harriet Alice Snyder, B.L.,
817 East Walnut Street, Pasadena
Clarence Arthur Spaulding, B.L., Auburn, New York

- Marla Faye McKean, B.L., Santa Ana
 David Bruce Merrill, B.L.,
 Mount Washington, Los Angeles
 Janet Florence Naismith, B.L., Los Angeles
 Mary Frances Pierce, B.L.,
 157 West Pasadena Street, Pomona
 Harry Blackburn Raney, B.L., Azusa
 James Merle Smith, B.L.,
 319 West Avenue 53, Los Angeles
 Arthur Logan Spring, B.S.,
 308 West Avenue 50, Los Angeles
 Mary Emma Thomas, A.B.,
 Stephenson Avenue, Pasadena
 Pearl Wiggins, B.S.,
 2515 Michigan Avenue, Los Angeles

1909

- Harriet Louise Annin, A.B.,
 344 West Avenue 53, Los Angeles
 Clara Serena Bartram, A.B.,
 317 West Avenue 50, Los Angeles
 Paul Garthwright Chapman, A.B., M.A., Sutter
 George Francis Conrad, A.B.,
 P. O. Box 392, Long Beach
 Anna Beulah Davis, A.B., El Modena
 Paul Clinton Elliott, A.B., McCormick Theological
 Seminary, Chicago, Ill.
 Caroline Eleanor Flanders, A.B.,
 Dewittville, Chautauqua Co., New York
 Earl Dwight Hillis, A.B.,
 1130 West Tenth Street, Los Angeles
 William Logan Holley, A.B., Santa Barbara

Christine Vive Hoogestraat, A.B.,
Box 1897, Bisbee, Arizona

John Cherry Johnson, B.S.,
4957 Pasadena Avenue, Los Angeles

Maude Eleanor Knudson, A.B., M.A., Laton

Winifred La Tourette, A.B.,
Cayucos, San Luis Obispo Co.

Barbara Ella Lee, A.B.,
Makaweli, Kanai, Hawaiian Islands

Etta Lee, A.B., Makaweli, Kanai, Hawaiian Islands

Leona Lodwick, A.B.,
West Avenue 52, Los Angeles

Hazel Irene Longacre, A.B. (Mrs. Homer Herrick),
Huron

Edna Frances Lowe, A.B.,
141 East Avenue 55, Los Angeles

Hannah Lois MacKalip, A.B.,
210 West Avenue 52, Los Angeles

Rev. Clarence Eugene Morrison, A.B., Lodiana, Punjab District, India, c/o Presbyterian Mission of America.

Susie Ida Norton, A.B., Monrovia

Jessie Elizabeth Patterson, A.B.,
5212 Pasadena Avenue, Los Angeles

Arthur Gordon Paul, A.B.,
124 East Avenue 54, Los Angeles

Leah Annette Phillips, A.B.,
5634 Pasadena Avenue, Los Angeles

Henry Proctor, Jr., B.S., Santa Paula

Herbert Palmer Rankin, B.S., Santa Ana

Marie Luella Rice, A.B.,
618 West Avenue 50, Los Angeles

- William Everett Roberts, A.B.,
Sioux Falls, South Dakota
- Frank Neill Rush, B.S.,
150 East Avenue 53, Los Angeles
- Janet Eliza Smart, A.B.,
Santa Ana
- Eloise Strobbridge, A.B.,
1807 Bonnie Brae, Los Angeles
- Harry Bryson Thomas, A.B.,
3901 Brooklyn Avenue, Los Angeles
- Samuel Pierce Thomas, B.S.,
3901 Brooklyn Avenue, Los Angeles
- Henry Lyon Thomson, A.B., Grant's Pass, Oregon
- Earle Vonard Weller, A.B., M.A.,
327 West Avenue 53, Los Angeles
- Grace Elinor Whitcomb, A.B. (Mrs. H. P. Rankin),
Santa Ana

1910

- Nellie May Bailey, A.B.,
769 North Orange Grove Avenue, Pasadena
- Nathaniel Bercovitz, B.S.,
Avenue 53 and Longfellow St., Los Angeles
- Mary Edna Blee, A.B., M.A.,
115 Orange Avenue, Santa Ana
- Lillard Ray Bond, A.B., M.A.,
Santa Paula
- Bertha Viola Byers, A.B. (Mrs. Edward Curl),
Santa Barbara
- Anna Brockenbraugh Christian, A.B., M.A.,
1916 Third Street, San Diego
- Julia Etta Crawford, A.B.,
R. F. D. No. 7, Santa Ana
- Esther Clarice Cumberland, B.S.,
131 West Avenue 51, Los Angeles

- Blanche Lunn Davenport, A.B.,
1243 Glendale Avenue, Glendale
- Philip Fortunatus Dodson, A.B.,
916 Palm Avenue, South Pasadena
- Muriel Douglas Fisher, A.B.,
1130 Windsor Place, South Pasadena
- Ruth Harriet Foote, A.B.,
5337 Monte Vista Street, Los Angeles
- Alva Lucia Gardner, A.B.,
515 El Centro Street, South Pasadena
- Sara Heath, A.B., Baldwin Park
- Gail Dubois Jepson, A.B.,
271 Crescent Drive, Pasadena
- Edna May Leighton, A.B.,
327 West Ocean Avenue, Long Beach
- Mary Elizabeth Lowe, A.B.,
Orton School, Pasadena
- Jean MacDougall, A.B.,
211 East Olive Street, Monrovia
- Arthur W. McFarland, A.B., Falk's Store, Idaho
- Falley Cleveland McLaughlin, A.B.,
6523 Ruby Street, Los Angeles
- Charles Putnam Mee, B.S.,
122 Hancock Street, Los Angeles
- Harold Francis Pellegrin, A.B.,
Princeton Theological Seminary, New Jersey
- Lulu Byrd Rice, A.B.,
618 West Avenue 50, Los Angeles
- Donna E. Roan, A.B.,
420 South El Molino Avenue, Pasadena
- Grace May Rowley, A.B.,
Wei Hsien, Shantung, China

Olive Irene Saviers, A.B., Oxnard
 Ruby Bernice Snively, A.B., Oxnard
 Frederick Clifton Thomson, A.B.,

Princeton Theological Seminary, New Jersey

Williel Thomson, Jr., A.B., Santiago, Chili, S. A.

Verona Merry Trowbridge, A.B.,

201 West Avenue 54, Los Angeles

Arthur Nichols Young, A.B.,

645 South Boyle Avenue, Los Angeles

1911

Roswell Howard Annin, B.S.,

344 West Avenue 53, Los Angeles

George Van Dusen Baer, A.B.,

Hotel Maryland, Pasadena

Louise Noble Carter, A.B.,

1225 Ingraham Street, Los Angeles

Edna Louise Chamberlin, A.B.,

130 West Avenue 56, Los Angeles

Lou Elizabeth Crinklaw, A.B., Santa Susana

Clifford Alden Douglas, A.B.,

Theological Seminary, San Anselmo

Mary Bartee Edwards, B.S.,

3007 North Broadway, Los Angeles

David Reid Faries, A.B.,

433 West Avenue 56, Los Angeles

George Hutchinson Gobar, A.B., Fullerton

Ada Jane Harvey, A.B., Santa Fe, New Mexico

Anna Grace Herriott, A.B.,

1919 High Street, Oakland

Charles Harold Hopkins, B.S.,

19 Garrison Street, Boston, Mass

Rowena Margaret Huscroft, A.B.,

1715 Toberman Street, Los Angeles
Boyd B. Kreider, B.S., Colton
Grace McCoy, A.B., Beaumont
Willa Josephine McKee, A.B.,

426 South Boyle Avenue, Los Angeles
Lysle Rothwell McKenney, A.B., San Diego
James Franklin Nelson, B.S., Anaheim
Eva Marler Overton, A.B.,

Roselawn Drive, Los Angeles
Robert Covert Patterson, A.B.,

600 West Avenue 54, Los Angeles
Mary Lydia Reiner, A.B. (Mrs. James C. McClung),
5138 Pasadena Avenue, Los Angeles
Harold John White, A. B.,

185 East Mountain Street, Pasadena

Register of Students

SENIORS

Bishop, Edwin Abbey.....	Fullerton
Boyd, Leslie Logue.....	Los Angeles
Brack, Georgia McKenzie.....	Los Angeles
Brown, Grace Edith.....	Indianapolis, Ind.
Chase, Rosalind Joleva.....	Los Angeles
Creighton, Roy Lamont.....	Phoenix, Ariz.
Cumberland, William Wilson.....	Los Angeles
Donaldson, Charlotte Victoria.....	Los Angeles
Fifield, Helen Faye.....	Los Angeles
Fuller, Charles Morris.....	Los Angeles
Gardner, Bessie Margery.....	South Pasadena
Hayslip, Rebecca.....	Pomona
Hollister, Warner Harrington.....	Pasadena
Johnson, Fred McPherson.....	Los Angeles
Landreth, Harold Brooks.....	Pasadena
Lawson, Francis William.....	Alhambra
McGee, Robert David.....	Santa Ana
Osmond, Edith Griffith.....	Los Angeles
Pettit, Carolyn Walton.....	Fowler
Pleukharp, James Farmer.....	Los Angeles
Post, Esther Annette.....	Fowler
Riggins, Aileen.....	Los Angeles
Schauer, Benjamin Rey.....	Santa Barbara
Schoonover, Warren Rippey.....	Alhambra
Smart, James Patterson.....	Santa Ana
Stanley, Bertha Elvira.....	Whittier

Truesdell, Alice Marion.....	Redlands
Tucker, Celia Elliott.....	Alhambra
Tuller, Anna Louise.....	Pomona
Vickers, Grace Adelaide.....	Los Angeles

JUNIORS

Allen, Mary Harriet.....	Los Angeles
Angus, Howard Weldon	Los Angeles
Blount, George Winfield.....	Los Angeles
Bradbeer, Chester Boal.....	Los Angeles
Culbertson, Mary Coe.....	Exeter
Culp, Dorothy.....	Escondido
Davis, Dorothea.....	Los Angeles
Dill, David Bruce.....	Hemet
Freeman, Stella.....	South Pasadena
Gaskell, Christopher Harold.....	San Diego
Gillies, Araminta Mary.....	South Pasadena
Gordy, Mabel Catharine.....	Pasadena
Horton, Norval Townsend.....	Pasadena
Key, Sarah Elizabeth.....	Fullerton
Lewis, Charles Henry.....	Fowler
McCoy, Horace Hoagland.....	Beaumont
McDuff, Esther.....	Long Beach
McKelvey, Elizabeth Hamilton.....	Los Angeles
Moore, Helen Annie.....	Los Angeles
Nelson, Nora Allen.....	Los Angeles
Percival, William Bush, Jr.....	Los Angeles
Pratt, Jessie Barnum.....	Los Angeles
Roan, Everett Hale.....	Pasadena
Seay, Wellford.....	South Pasadena
Stevens, John Egbert.....	Modesto
Thacker, Emma Beryl.....	Los Angeles
Thorndike, William Sharp.....	Hillyard, Wash.

Tidball, Edith Lucile.....	Santa Ana
Wendling, Lillie Ethel.....	South Pasadena
Wieman, Drury Park.....	Los Angeles
Wieman, Lois Hazel.....	Los Angeles
Yakeley, Leon.....	Los Angeles

SOPHOMORES

Abbott, Nellie.....	Pasadena
Aiken, Mildred.....	Newport Beach
Baer, Francis Shaw.....	Pasadena
Beede, Benjamin Willis.....	Whittier
Bickford, John Thomas.....	Los Angeles
Boal, Louise Baxter.....	Los Angeles
Boekenoogen, Fred Edwards.....	South Pasadena
Brown, Frederick Walton.....	Pasadena
Bryan, Edith Sibyl.....	Pasadena
Clapp, James Norton.....	Pasadena
Clark, Stephen Cutter, Jr.....	Pasadena
Clute, Walker Stillwell.....	Los Angeles
Cohn, Esther.....	El Rio
Daniell, Margaret Lantz.....	Los Angeles
Day, Eleanor Edith.....	Pasadena
Dunlap, Willard Everett.....	Los Angeles
Durrell, Laura Leona.....	Azusa
Ehrenfeld, Day.....	Pasadena
Eldred, Fred Huestio.....	Los Angeles
Fifield, Dean.....	Los Angeles
Gray, Ralph Herbert.....	Los Angeles
Grimes, Ruth Elizabeth.....	Derby, Iowa
Guy, Gratia.....	Los Angeles
Hannaford, William Fiske.....	Lancaster, Wis.
Hazlett, Edith May.....	Los Angeles
Henderson, John Alexander, Jr.....	Santa Ana

Heninger, Walter.....	Los Angeles
Herman, Clara Gertrude.....	Los Angeles
Hunt, Hazel Chatfield.....	Los Angeles
Jones, Thaddeus Crane, Jr.....	Pasadena
Keith, Mildred Marie.....	South Pasadena
Kirkpatrick, Harry Allister.....	Alhambra
Lawyer, Edwin Briggs.....	South Pasadena
Leffingwell, Mary Lois.....	Los Angeles
McClung, Katherine Wilma.....	Los Angeles
McConnell, William Orr.....	Colorado Springs, Colo.
McDonald, Bruce Harold.....	Los Angeles
McNary, Hugh Alin.....	Los Angeles
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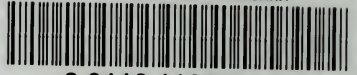
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